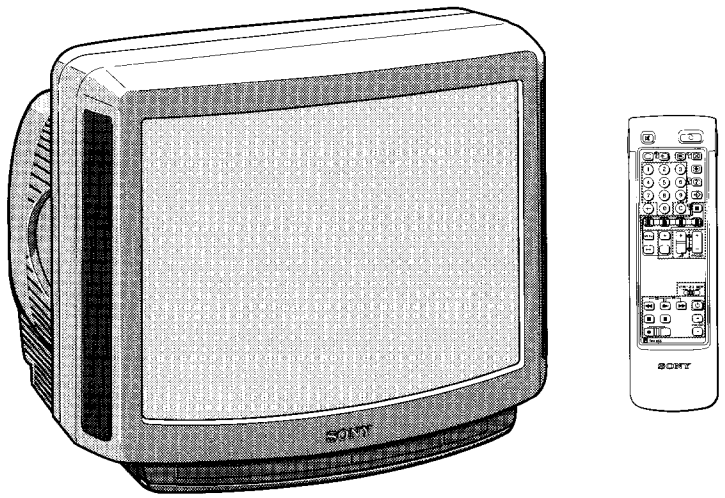
SERVICE MANUAL

BE-3B CHASSI

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-X2181A	RM-833	Italian	SCC-G81L-A
KV-X2183B	RM-833	French	SCC-G85J-A
KV-X2181D	RM-833	AEP	SCC-G77L-A
KV-X2183E	RM-833	Spanish	SCC-G82K-A

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-X2182U	RM-833	UK	SCC-G87G



MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Italian	B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H,L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F69 CABLE:B-Q S21-S44 B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

ODEL	Italian	French	AEP	Spanish	UK
ower Consumption	89W	89W	89W	89W	117W

SPECIFICATIONS

cture Tube	Hi-Black Trinitron Approx. 54.5 cm (21 inches) (Approx. 51 cm picture measured diagonally) 110° -deflection

put/Output Terminals

EAR]

-1 21-pin Euro connector (CENELEC standard)
inputs for audio and video signals
inputs for RGB
outputs of TV video and audio signals
-2/ 2 21-pin Euro connector
inputs for audio and video signals
inputs for S video
outputs for audio and video signals (selectable)

[FRONT]

3 Video input - phono jack
3 Audio inputs - phono jacks
3 S video input 4-pin DIN
Ω Headphone jacks : stereo minijack

Sound output	2 x 30W (Music power)
Dimensions	Approx. 517x443x485 mm
Weight	Approx. 26.5kg
Supplied accessories	RM-833 Remote Commander (1) IEC designation R6 battery (1)
Other features	NICAM , FASTEXT, TOPTEXT.

[RM-833]

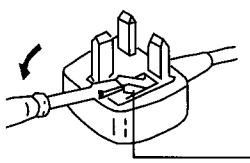
Remote control system	infrared control
Power requirements	1.5V dc 1 battery IEC designation R6 (size AA)
Dimensions	Approx. 65x225x21 mm (w/h/d)
Weight	Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

Item \ Model name	KV-X2181A	KV-X2183B	KV-X2181D	KV-X2183E	KV-X2182U
Pal Comb	OFF	ON	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	ON
Norm D/K	ON	OFF	ON	OFF	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Toptext	ON	ON	ON	ON	OFF
Nicam Stereo	OFF	ON	OFF	ON	ON
Language Preset	Italian	French	German	Spanish	English

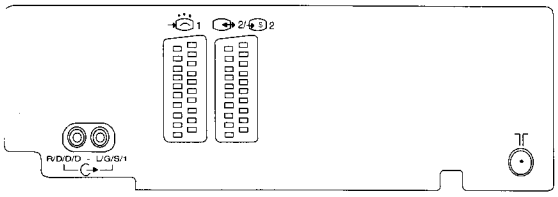
WARNING (KV-X2182U only)

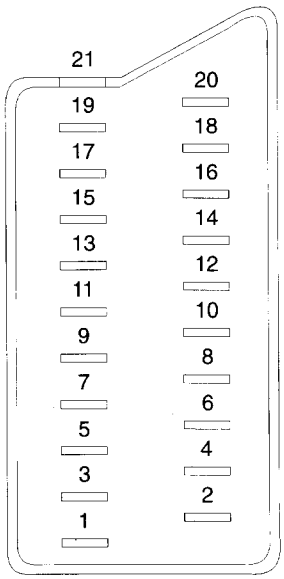
The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the ASTA mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.
IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED.
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade
and replace the fuse.

in connector (1 2 / 4)

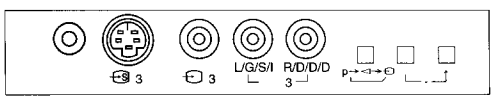




Pin No.	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance :Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance :More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance :Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance :More than 10kohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground(blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) croma input	0.3 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	○	Ground(video output)	
18	○	○	○	Ground(video input)	
19	○	○	○	Video output	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
20	○	—	—	Video input	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
21	○	○	○	Common ground (plug, sheild)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ I DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR I DIRECTEMENT RACCORDÈ Á L'ALIMENTATION SECTEU

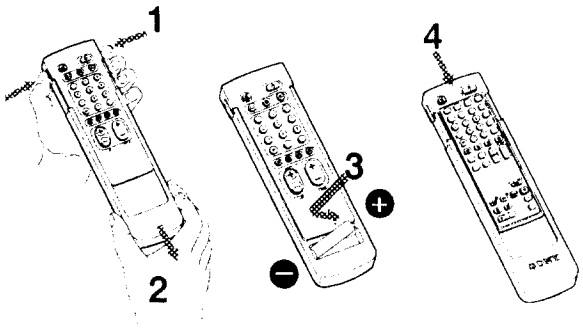
ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PA UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LE VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ D FONCTIONNEMENT, NE LES REMPLACER QUE PAR DE COMPOSANTS SONY DONT LE NUMÈRO DE PIÈCE ES INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started

Inserting the Battery Into the Remote Commander



emove the cover.

Check the correct polarity.

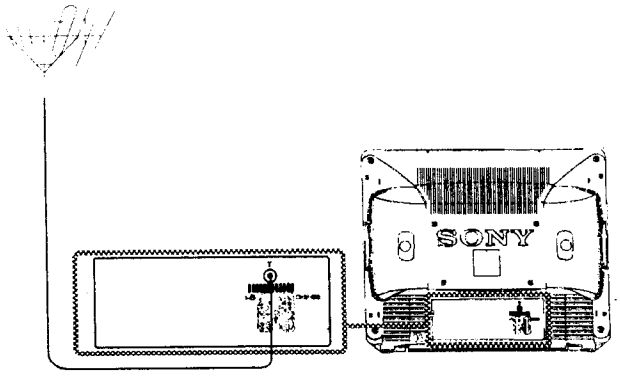
Refit the outside cover making sure that the Full Function side is visible.

ıout Battery Life

ıder normal operation, a battery will last up to half a year.

Connecting the Aerial

Connect aerial to the ⊤ socket at the rear of the TV. (cable not supplied)



Choosing a Language

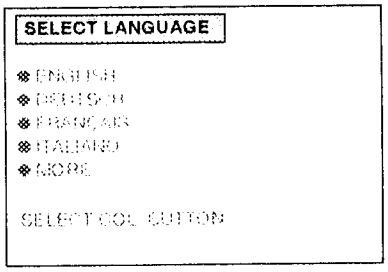
ee inside of front cover and back cover)

Depress ⏻ A on the TV.
The TV turns on. If the standby indicator B on the TV is lit, press ○ 3 or any number button 4 on the Remote Commander.

Press MENU 7 on the Remote Commander.
The SELECT LANGUAGE screen appears.

MENU

3 Press one of the colour buttons 17 on the Remote Commander to select a language (Press the white button 17 to display other language alternatives). The SELECT LANGUAGE screen clears and all subsequent menus appear in the chosen language.



Note: From the second time when you turn on the TV, the MENU screen appears instead of the SELECT LANGUAGE screen. Press the yellow button 17 then press the white button 17 to redisplay the SELECT LANGUAGE screen.

Tuning in to Channels

You can tune in up to 100 channels to programme positions either automatically or manually.

auto tuning:	A single button press allows all receivable channels to be tuned. Use if you are unfamiliar with the channel numbers of stations.
manual tuning:	Use if you are familiar with the channel numbers of stations.

Choose the more appropriate way for you.

Tuning in to Channels Automatically

There are two possibilities for auto tuning;

A. On the TV: hold down ▶▶□ E on the front of the TV for 2 seconds

or

B. On the Remote Commander: as follows

1 Press MENU 7.

2 Press the white button 17.

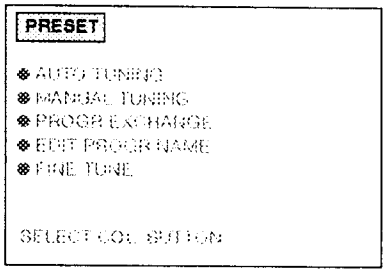
3 Hold down the red button 17 for 2 seconds,

Note: Press the green button 17 to cancel.

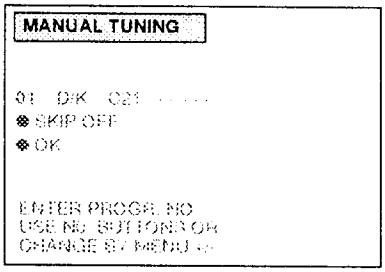
Tuning in to Channels Manually

1 **Press MENU [7].**
The MENU screen appears.

2 **Press the white button [17] to select PRESET.**
The PRESET screen appears.



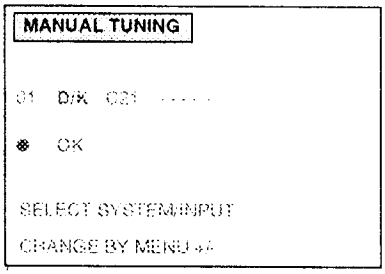
3 **Press the green button [17] to select MANUAL TUNING.**
The MANUAL TUNING screen appears.

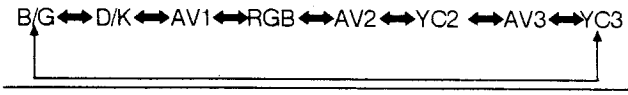


4 **Press the number buttons [4] or MENU+/– [9] to select a programme position.**
If you use the number buttons [4], enter a double-digit number. (e.g. for programme number 4, first press 0, then 4)

5 **Press the green button [17].**

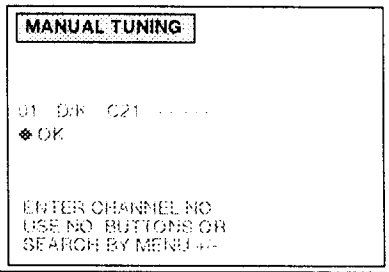
Note: Use MENU +/– [9] to select TV system. You can alternatively select input sources which may be assigned to programme positions. The display changes as follows:





6 **Press the green button [17].**

Note: If a video input source is selected in step 5, this is now stored. Refer to step 4 to tune other programme positions.



7 **When you have selected B/G, press the red button [17] to select C (regular channel) or S (cable channel).**

8 **Press the number buttons [4] or MENU+/– [9] to select the channel number.**
If you use the number buttons [4], enter a double-digi number. (e.g. for channel 23, first press 2, then 3)

9 **Press the green button [17] to store.**

Note: If you want to preset other channels, repeat ste 4 to 9.

10 **Press MENU [7] twice to return to the normal screen.**

Note: You can skip unused programme positions when selecting programmes with the PROGR +/– buttons [18]. Press the red button [17] to skip in step 4. However, the skipped programmes may still be called up when you use the number buttons.

Basic TV Operations

Turning the TV on and off

Turning on
Depress ⏻ [A] on the TV.

Turning off temporarily
Press ⏻ [10] on the Remote Commander.
The TV enters standby mode and the standby indicator [E] on the front of the TV lights up.

Turning on again
Press ▢ [3], PROGR+/– [18], or one of the number buttons [4] on the Remote Commander.

Turning off completely
Depress ⏻ [A] on the TV.
Note: It is recommended to use ⏻ [A] to turn off the TV. This could help you save energy.

Selecting TV Programmes

Press PROGR+/– [18] or press number buttons [4].

To select a double-digit number
Press -/-- [5], then the number buttons [4].

Adjusting the Volume

Press ◿+/– [19].

Muting the Sound

Press 🔇 [1].
To resume normal sound, press 🔇 [1] again.

Displaying the On-screen Indications

Press ⓘ [14] once to display the on-screen indications. Press again to make the indications disappear.
Note: If NICAM is transmitted regardless of whether it is stereo or mono, the two speaker symbol automatically appears on the screen for several seconds.

Operating the TV Using the Buttons on the T

With the buttons on the TV, you can adjust or select the functions as follows:

Press ◿+/– [D] to adjust the volume.
Press P+/– [C] to select programme numbers or to tur the TV on from the standby mode.
Press ⏻ [F] to select the input source.
Press ⏭ [E] to preset channels automatically.

Advanced TV Operations

Operating the Menu System

ou can adjust picture and sound, preset channels to ·ogramme positions and utilise other convenient features / using the following menu system.

Press;		to;
1	MENU 7	enter the MENU screen
2	a colour button 17	select an item you want to change (The selected item is marked by a triangle.)
3	MENU+/– 9	change (or adjust) the contents of the item
4	MENU 7	return to the MENU screen
5	MENU 7 again	return to the normal screen
Press MENU 7 once or twice whenever you want to return to the normal screen.		

ote: When selecting menus, the picture becomes darker. , however, an item in the PICTURE ADJUSTMENT menu selected, normal level of TV picture is restored to allow ıe best adjustment.

Adjusting the Picture and Sound

lthough picture and sound are adjusted at the factory you an adjust them to suit your own taste.

1 Press MENU 7.
The MENU screen appears.

2 Press the red button 17 to select PICTURE or the green button 17 to select SOUND.

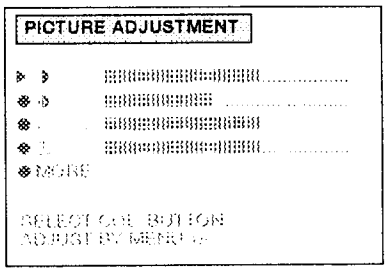
3 Press the respective colour button 17 to select an item.

4 Press MENU +/– 9 to adjust.

5 Press MENU 7 twice or wait until the menu displays disappear automatically to return to the normal screen.

PICTURE ADJUSTMENT

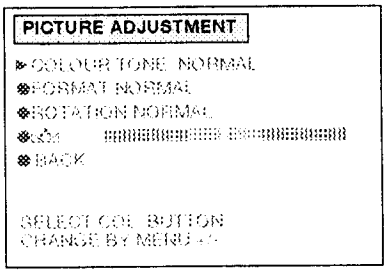
(First Page)



Press colour button	Effect
Red: For Picture ◑	Less —I— More
Green: For Colour	Less —I— More
Yellow: For Brightness	Darker —I— Brighter
Blue: For Sharpness	Softer —I— Sharper
White:	Next page of PICTURE ADJUSTMENT

PICTURE ADJUSTMENT

(Second Page)

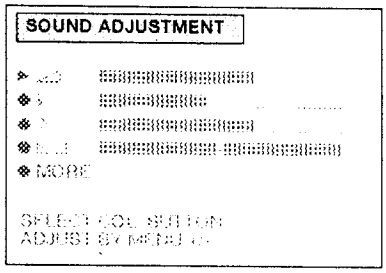


Press colour button	Effect
Red: For Colour Tone	Normal -> Warm (reddish colour tone) -> Cool (blueish colour tone)
Green: For Format	Normal: Normal setting 16:9 Wide screen effect
Yellow: For Picture Rotation (only for KV-X2981K)	Normal: Normal setting –5~+5: Adjusts the picture slant caused by the earth magnetism
Blue: For Hue control (only for NTSC video signals)	Reddish —I— Greenish
White:	Back to first page of PICTURE ADJUSTMENT

Note: Press →•← 8 on the Remote Commander to reset to the factory preset levels for picture and sound.

SOUND ADJUSTMENT

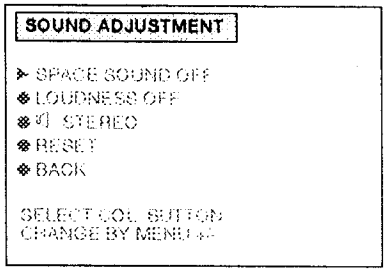
(First Page)



Press colour button	Effect
Red: For Volume	Less —|— More
Green: For Treble	Less —|— More
Yellow: For Bass	Less —|— More
Blue: For Balance	More left - more right
White:	Next page of SOUND ADJUSTMENT

SOUND ADJUSTMENT

(Second Page)



Press colour button	Effect
Red: For Space Sound	OFF: normal sound ON: for a special acoustic sound effect
Green: For LOUDNESS	OFF: normal sounds ON: when listening to music broadcast
Yellow: For Stereo:	Stereo -> Mono A (left channel) - > Mono B (right channel) -> Mono
Blue: For Reset:	Resets to the factory preset levels for picture and sound
White:	Back to first page of SOUND ADJUSTMENT

Note: Press ⇢•← 8 on the Remote Commander to reset to the factory preset levels for picture and sound.

Using Special Features

With your TV you can utilise special features such as Parental Lock or Sleep Timer .

1 **Press MENU 7.**
The MENU screen appears.

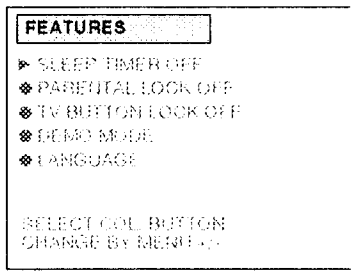
2 **Press the yellow button 17 to select FEATURES.**

3 **Press the respective colour button 17 to select an item.**

4 **Press MENU +/– 9 to change.**

5 **Press MENU 7 twice or wait until the menu displays disappear automatically to return to the normal screen.**

FEATURES



Press colour button	Effect
Red: For Sleep Timer (Automatic switch off function)	OFF -> 0:30 -> 1:00 -> 1:30 -> 2:0((hours) After the selected time the TV set switches itself automatically into standby mode.
Green: For Parental Lock (For preventing children from watching programmes which you consider unsuitable)	OFF: Normal setting ON: The TV-channel you are watching is now blocked. In this wa you can prevent undesirable broadcasts from appearing on the screen.
Yellow For TV Button Lock	OFF: Normal setting ON: The buttons on the TV do not function anymore. (The Remote Commander still operates)
Blue: For Demo Mode	ON: A sequence of menu pictures is displayed. Press any button on the Remote Commander to stop the function.
White: For Language	The SELECT LANGUAGE screen appears.

Advanced Presetting Functions

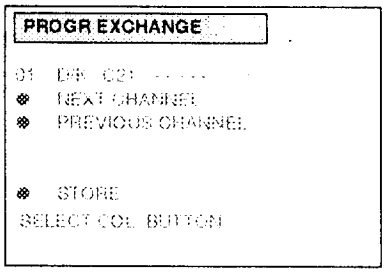
xchanging Programme Positions

ɔu can exchange the programme positions to a preferred der (example: exchange programme 09 (channel C21) ıth programme 15 (channel C24).

Press MENU [7].
The MENU screen appears.

Press the white button [17].
The PRESET screen appears.

Press the yellow button [17].
The PROGR EXCHANGE screen appears.



Press the white button [17] repeatedly until the desired programme number (09) appears.

Press the red or the green button [17] repeatedly until the desired channel number (C24) appears.

Press the white button [17] to store.
Now the exchange has been completed. Channel C24 is tuned in to programme 09 and channel C21 is tuned in to programme 15.

Press MENU [7] twice to return to the normal screen.

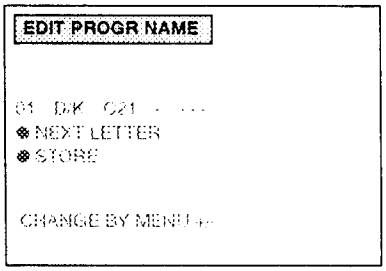
diting Programme Names

ɔu can edit the programme names up to five letters.

Press MENU [7].
The MENU screen appears.

Press the white button [17].
The PRESET screen appears.

Press the blue button [17].
The EDIT PROGR NAME screen appears.
The first character flashes.



4 Press MENU+/– [9] to edit the first letter.
The first letter changes as follows;

A ↔B ↔ . . . ↔Z↔ 0 ↔1↔ . . . ↔9 ↔ "–" (space)

5 Press the red button [17] to move to the next letter.

6 Repeat steps 4 to 5, until the fifth letter is chosen.

7 Press the green button [17].
The programme name is stored, and the normal screen appears. To edit another programme name, repeat steps 1 to 7.

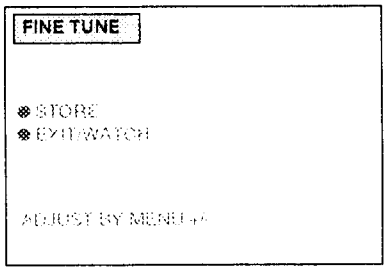
Fine Tuning

You can adjust the receiving condition by the FINE TUNE function.

1 Press MENU [7].
The MENU screen appears.

2 Press the white button [17].
The PRESET screen appears.

3 Press the white button [17] again.
The FINE TUNE screen appears.



4 Press MENU+/– [9] to adjust the receiving condition.

5 Press the red button [17] to store the adjustment, or press the green button [17] not to store.
Then the normal screen appears. If you have pressed the green button, the fine tuned condition is cancelled once you choose another programme.

Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset.

1 Press C [16] on the Remote Commander. For cable channels, press C [16] twice.
The indication "C" ("S" for cable channels) appears on the screen.

2 Enter a double-digit channel number using the number buttons (e.g. for channel 23, first press 2, then 3).
The channel appears.
However, the channel is not stored.

Teletext Operation

TV stations broadcast teletext programmes via the TV channels. For basic operation of teletext, use the simple side of the Remote Commander. For the advanced features of teletext, use the buttons indicated in green on the full function side of the Remote Commander.

Basic Teletext Operation

Switching Teletext on and off

1 Select the channel which carries the teletext service you wish to view.

2 **Press ☰ [11] to display Teletext.**
If no teletext signal is broadcast, the indication P100 is displayed on a black screen.

3 **Input three digits for the page number using the number buttons [4].**
The numbers are displayed on the screen and the requested page appears in a few seconds.
Note: If you make a mistake, type in any three digits, then re-enter the correct page number.

4 **Press ▭ [3] once or ☰ [11] twice to return to the TV mode.**

Note: To change the teletext channels. First press ▭ [3] to return to the TV mode, then repeat steps 1 to 3.
Note: If the signal of a TV channel is weak, teletext errors may occur.

Advanced Teletext Operation

Using Fastext

With Fastext you can access pages with one button press. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons [6] on the Remote Commander.
Press the corresponding colour button [6] on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed in a few seconds.

Requesting the Index page

Press ⓘ [17]. The Index page appears.

Accessing the next or preceding page

Press ⊡▲ (PAGE +) or ⊡▼ (PAGE –) [18]. The next or the preceding page appears on the screen.

Superimposing the teletext display on the TV picture

Press ☰ [11] once if you are in text mode or press ☰ [11] twice if in TV mode.
To return to the normal teletext display press ☰ [11] twice.

Preventing a teletext page from being updated or changed

Press ⊡ (HOLD) [2]. The HOLD symbol (⊡) appears on the screen and the selected subpage is held until you press ☰ [11] to cancel.

Enlarging the teletext display

Press ⊕ [13] once to enlarge the upper half. Press twice t enlarge the lower half. Press again to restore the normal display.

Revealing concealed information (e.g. answers to a quiz

Press ⓘ (REVEAL) [14]. The information is revealed. Pres ⓘ [14] again to conceal the information.

Watching TV while waiting for a requested page to be displayed

1 **Request a new teletext page.**

2 **Press ⊠(TEXT CL) [12].**
The TV programme is displayed and the symbol ☰ is displayed at the top of the page.
Note: When the requested page is available the page number is displayed at the top of the screen.

3 **Press ☰ [11] to view the page.**

Note: To cancel the request
Display the teletext page, then press ☰ [11]. The request i now cancelled. Press ▭ [3] to resume TV mode.

Using the Favourite Page system

You can store up to four of your favourite teletext pages pe programme with the help of the Favourite page system. In this way you have quick access to the pages you watch frequently.

Storing the Favourite Pages

1 **Select the page you would like to store using the number buttons [4].**

2 **Press ⇳ [15] twice.**
The colour prompts at the bottom of the screen flash.

3 **Press any of the colour buttons [6] on the Remote Commander to store the selected page.**
The page is now stored on this button.

Repeat steps 1 to 3 for the other 3 pages available.

Displaying the Favourite pages

1 **Press ⇳ [15].**

2 **Press the colour button [6] corresponding to the colour prompt onto which the desired page is stored**
The page is requested. (It may take a few seconds to b received).

Note: Step 1 must be taken before every favourite page selection, otherwise the normal Fastext facility operates.

Using the Time Function in the TV mode

Press ⊡ [12] to request the time. Press again to cancel the request.
Note: This function is available only when teletext is broadcast.

Connecting Other Equipment

You can connect optional audio/video equipment to this TV such as VCRs, video disc players, cameras or stereo systems.

Connector	Acceptable input signal	Available output signal
1 M (AV1/RGB)	Audio/video and RGB signal	Audio/video signal from TV Tuner
2/2 L (AV2) (YC2)	Audio/video and S video signal	Audio/video signal from selected source
3/3 G H AV3)	Audio/video signal and	No outputs
3/3 G I YC3)	Audio/S video signal	

To watch a video input picture, press [2] until the desired video input appears.
To return to the normal TV picture, press [2] repeatedly or press [3].

Note: If you have a decoder, connect it to 1 M.

Connecting a VCR Using the TV Aerial Terminal

Connect the aerial output of the VCR to the aerial terminal K of the TV. It is recommended to tune in the VCR signal to programme number "0". For details, see "Tuning in to Channels Manually" on page 6.

Note: S video input (Y/C input) I L
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.
Separating the Y and C signals prevents them from inter-

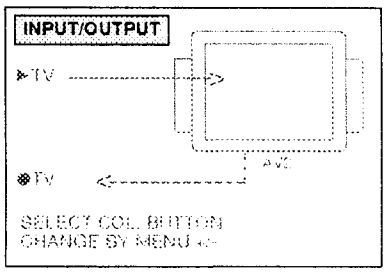
Checking and Selecting the Input and Output Sources Using the Menu

You can display a menu screen to see which input and output source are selected. You can also change the selection using this menu.

Checking the Input and Output Sources

1 **Press MENU [7].**
The MENU screen appears

2 **Press the blue button [17] to select INPUT/OUTPUT.**
The INPUT/OUTPUT screen appears.



Selecting an Input Signal

Press the red button [17] to select INPUT. Press MENU +/– [9] to select the desired input source.
You can select among the following sources:

TV ↔ AV1 ↔ RGB ↔ AV2 ↔ YC2 ↔ AV3 ↔ YC3

Selecting an Output Signal

The 2 /2 connector [L] outputs the source input from the other connectors. Press the green button [17] to select OUTPUT. Press MENU +/– [9] to select the desired output source.

You can select among the following sources:

TV ↔ AV1 ↔ AV2 ↔ YC2 ↔ AV3 ↔ YC3

Note: Press MENU [7] twice or wait until the menu displays disappear automatically to return to the normal screen.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment

1 **Set the VTR 1/2/3 MDP selector [20] according to the equipment you want to control:**
VTR 1: Beta VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video Disc Player

2 **Use the buttons [21] to operate the additional equipment.**

Note: If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
Note: If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.
Note: When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Using Headphones

You can utilise headphones. Connect them to the headphone jack [J], then the sound from the speakers goes off.

Note: You can't control the sound adjustment except for volume.

For your information

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound

- Plug the TV in.
- Press ⏻ A on the TV. (If the standby indicator B is lit, press ⏻ 3 or any number button 4 on the Remote Commander.)
- Check if the selected video source is on.
- Turn the TV off for three or four seconds and then turn it on again using ⏻ A.

Poor or no picture (screen is dark), but good sound

- Press MENU 7 to enter the MENU screen, and press the red button 17, then adjust ◑ and ◐.

Good picture but no sound

- Press ◿+ 19.
- If 🔇 is displayed on the screen, press 🔇 1.

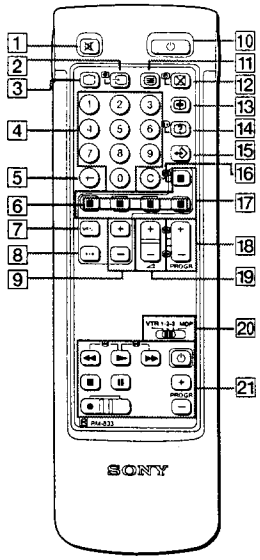
No colour for colour programmes

- Press MENU 7 to enter the MENU screen, and press the red button 17, then adjust ◑.

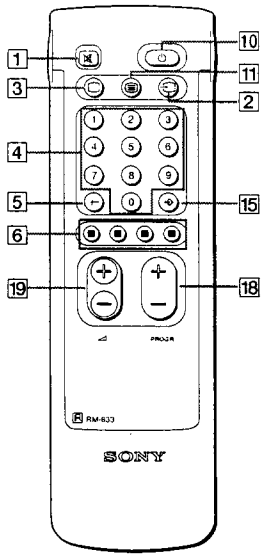
Remote Commander does not function

- Replace the battery.

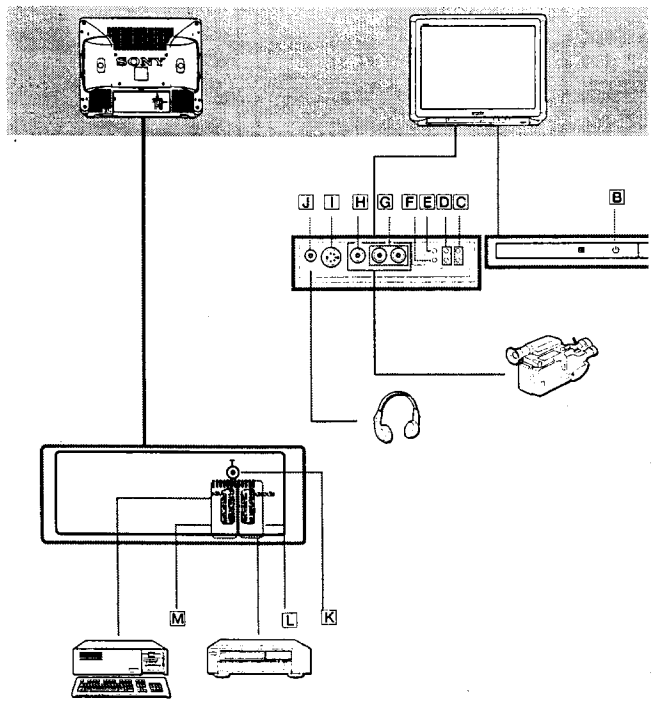
If you continue to have problems, have your TV serviced b qualified personnel. Never open the casing yourself.



Full-Function Side
Полно функционална
Teljes Funkciós Oldal
Strana se všemi Funkcemi
Strona Funkcji Złożonych
Страна с Всички Функции

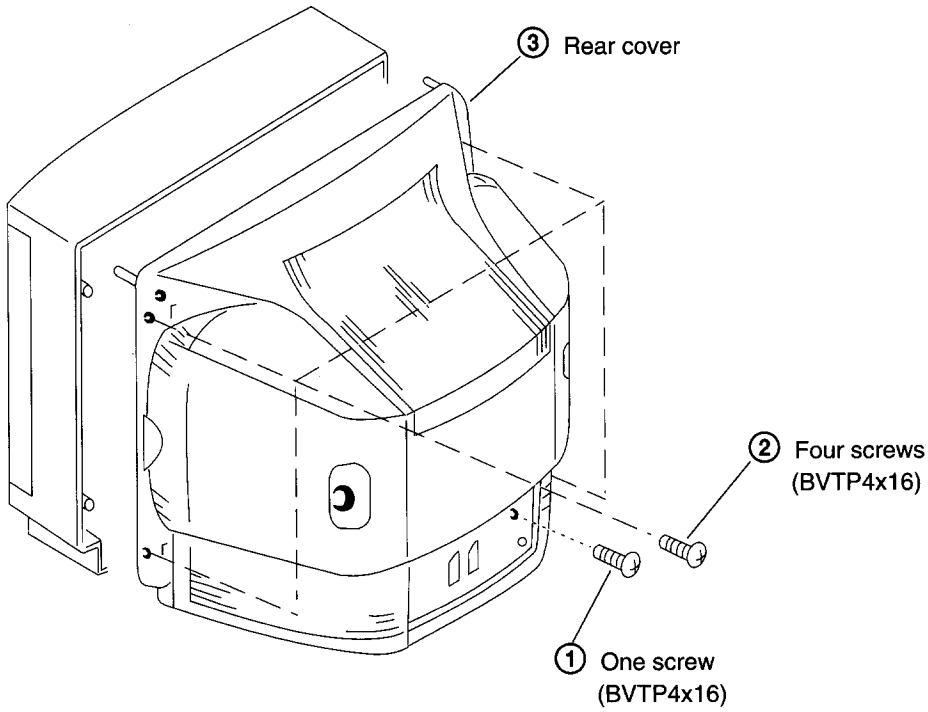


Simple Side
Простая Сторона
Egyszerü Oldal
Jednoduchá Strana
Strona funkcji podstawowych
Страна с Оиростени Функции

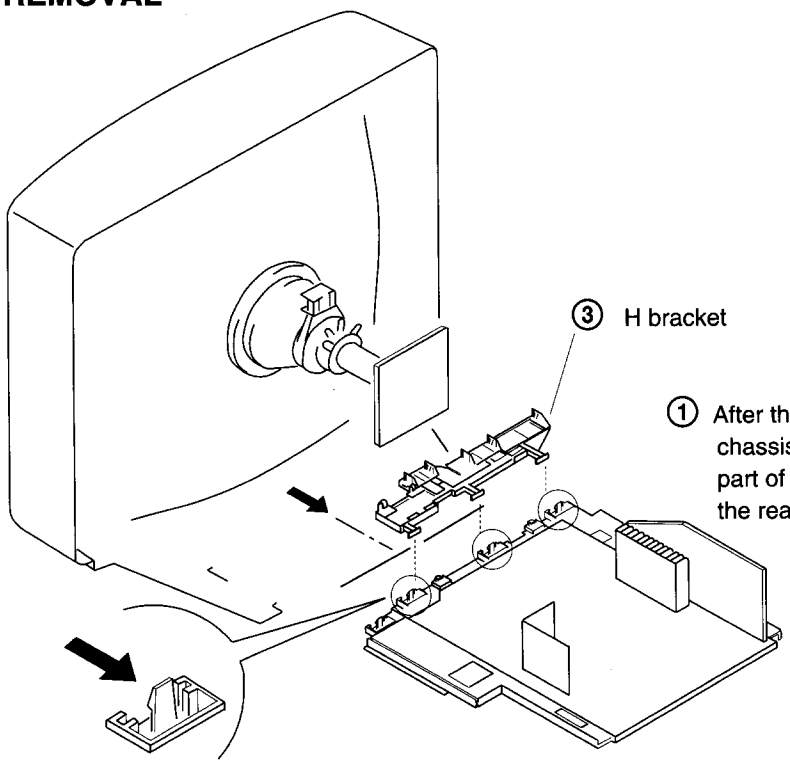


SECTION 2
DISASSEMBLY

1. REAR COVER REMOVAL

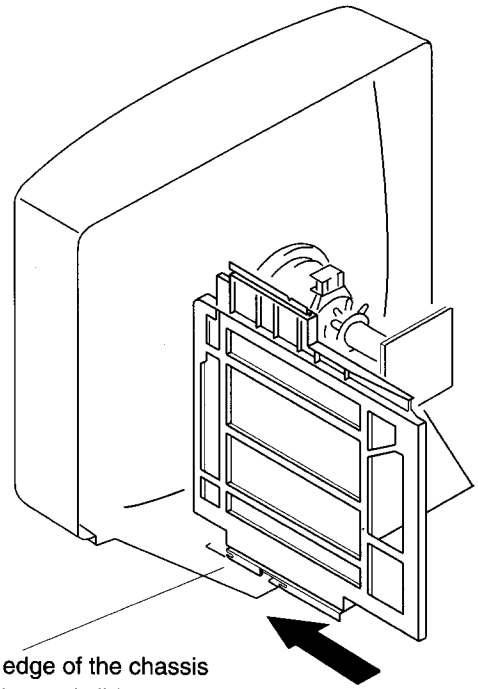


2. CHASSIS ASSY REMOVAL



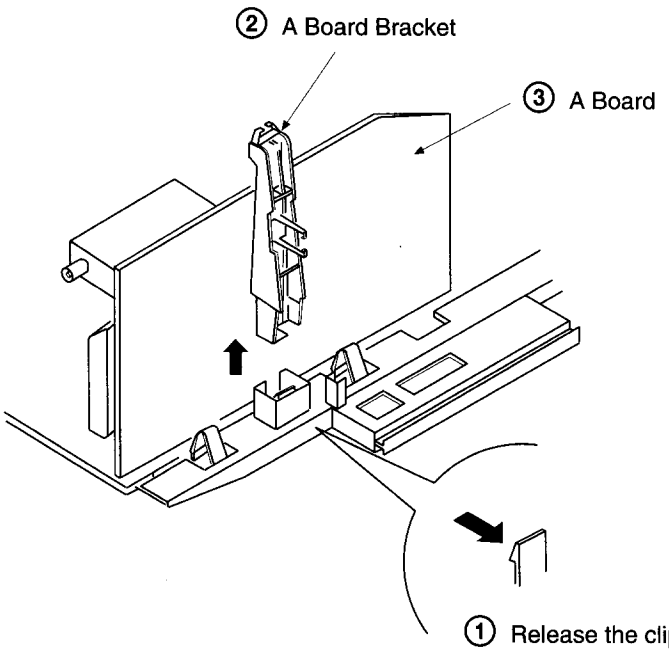
② Push the three claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

2-3. SERVICE POSITION



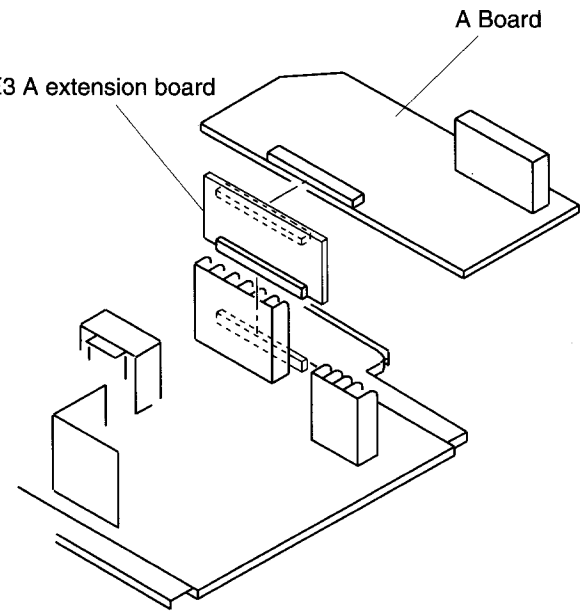
Locate the 2 slots on the edge of the chassis bracket in the locating holes and slide in the direction of the arrow

2-4. A BOARD REMOVAL

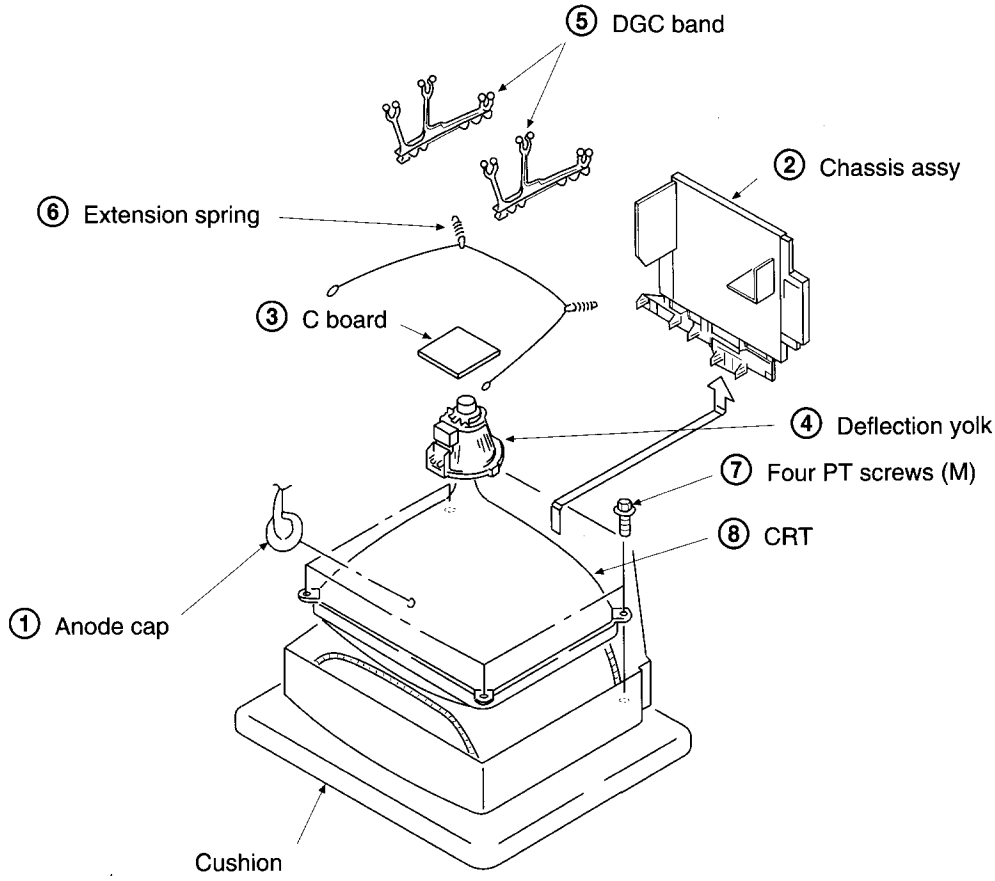


① Release the clip by pressing in the direction of the arrow, shown and lift out the A board bracket

2-5. EXTENSION BOARD



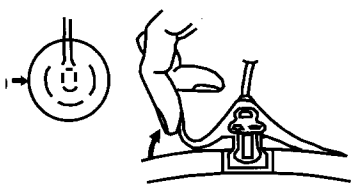
5. PICTURE TUBE REMOVAL



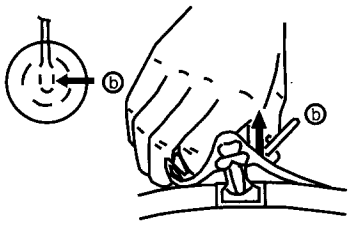
REMOVAL OF ANODE-CAP

te: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

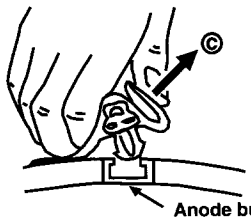
REMOVING PROCEDURES.



Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



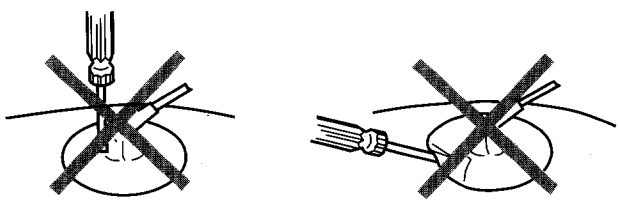
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

HOW TO HANDLE AN ANODE-CAP

- Don't damage the surface of anode-cap with sharp shaped material !
- Don't press the rubber hardly not to hurt inside of anode-caps !
  A metal fitting called as shatter-hook terminal is built into the rubber.
- Don't turn the foot of rubber over hardly !
  The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET - UP ADJUSTMENTS

● The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

● These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch below should be set as follows unless otherwise noted :

◑ CONTRASTcontrol ..... 80%(or Normal by commander)

☼ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

Note: Test Equipment Required.

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation:

● Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.

● Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
5. Switch over the raster signal to blue and blue and confirm the condition.
6. When the position of the deflection yoke is determined,tighten it with a deflection yoke mounting screw.
7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

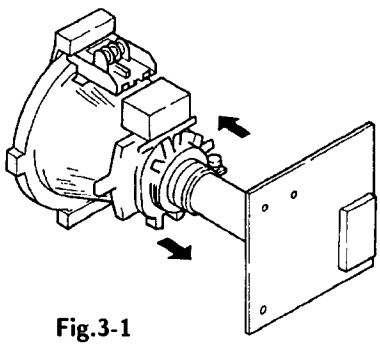


Fig.3-1

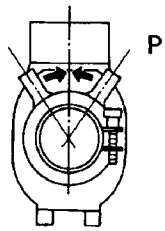


Fig.3-2

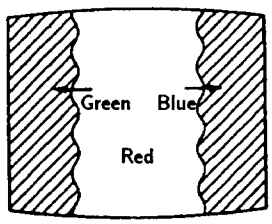


Fig.3-3

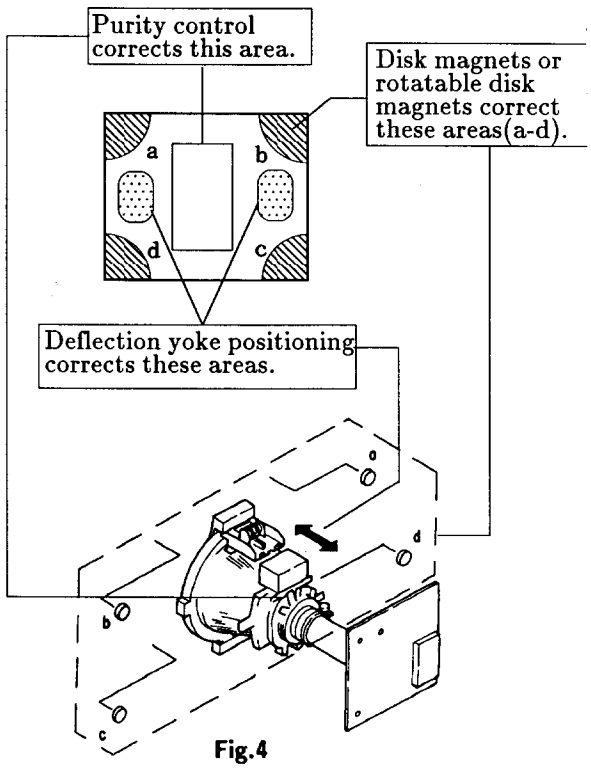


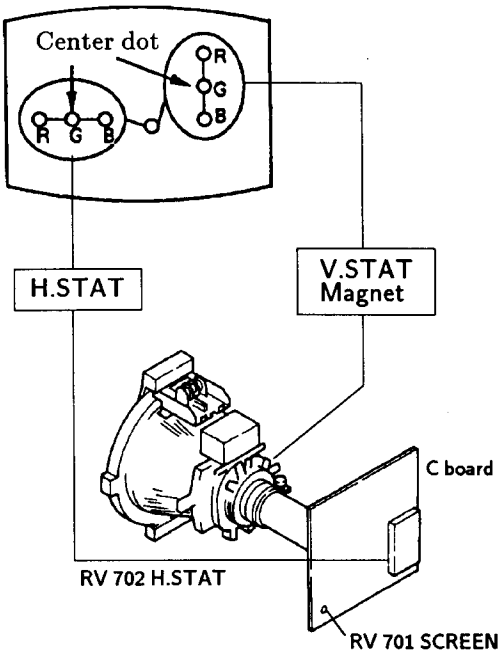
Fig.4

3-2. CONVERGENCE

Preparation:

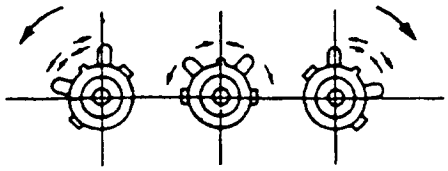
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

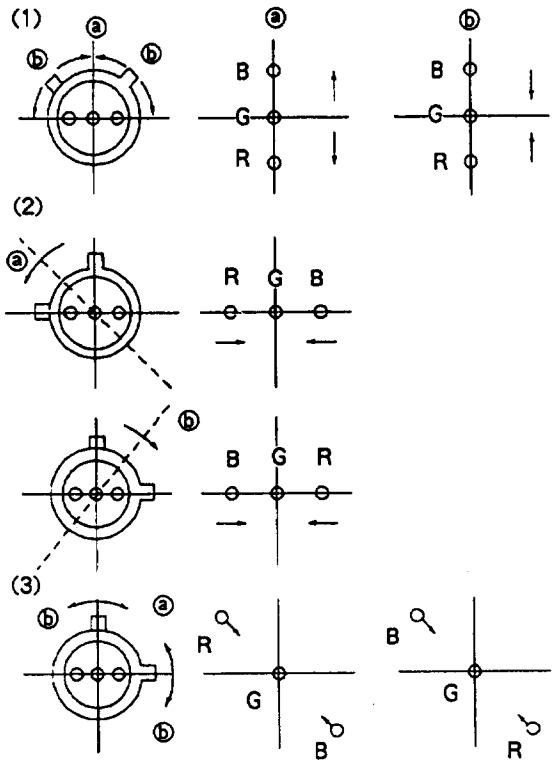


1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)

- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4.When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

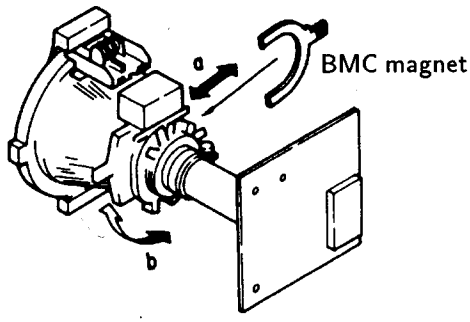


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

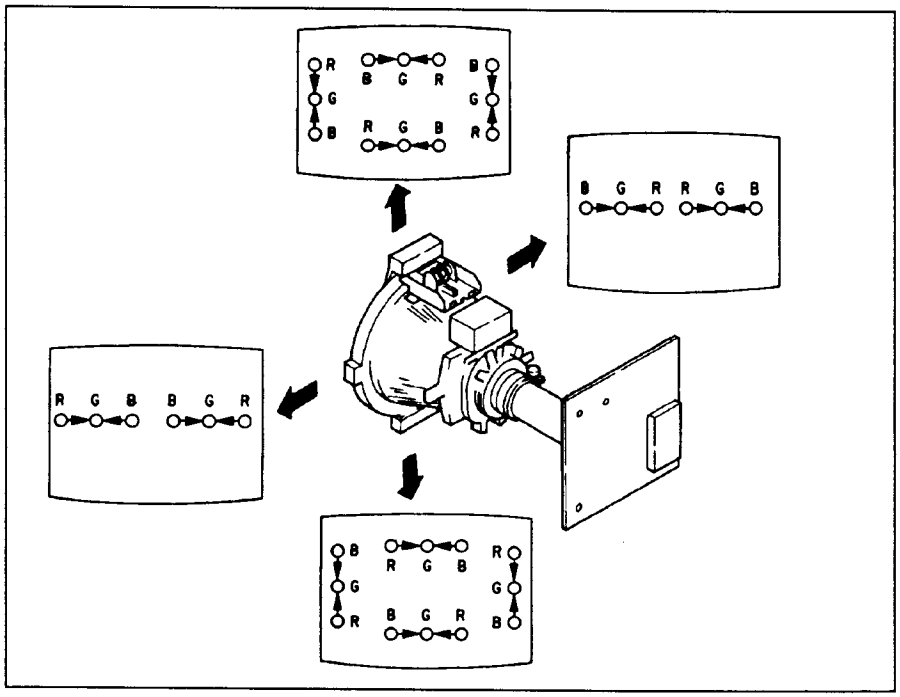


(2)Dynamic Convergence Adjustment

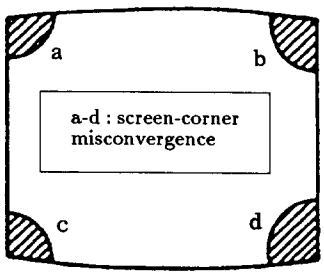
Preparation:

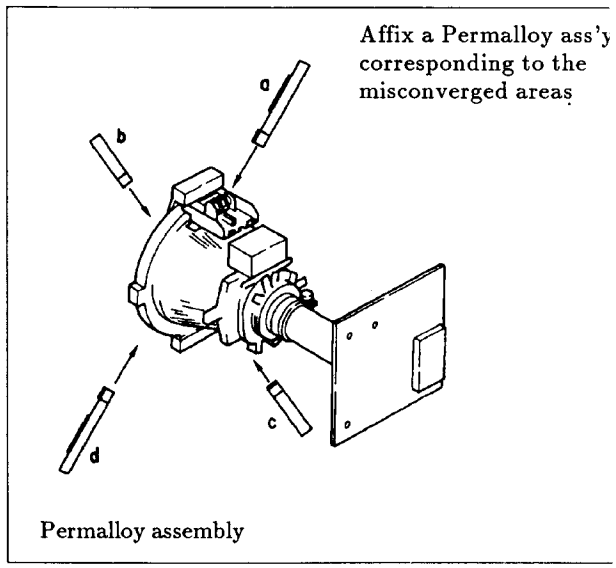
● Before starting perform Horizontal and Vertical static convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergenceas shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



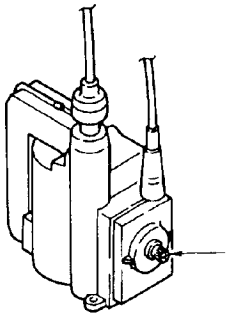
(3) Screen-corner Convergence





3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.



3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
3. Select CXA 1587 on menu.

09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with ⊼, ⊻ buttons so that the white balance becomes optimum.
6. Press OK button to write the data for each item.
7. Set picture to MIN.
8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R -MANUAL CUT OFF, G-MANUAL CUT OFF and B-MANUAL CUT OFF with ⊼, ⊻ buttons so that the white balance becomes optimum.
9. Press OK button to write the data for each item.

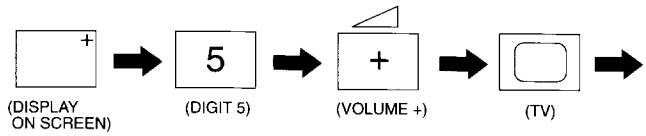
SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-833.

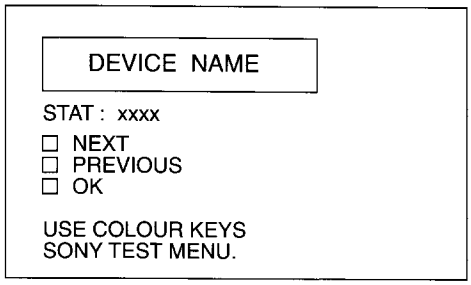
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.

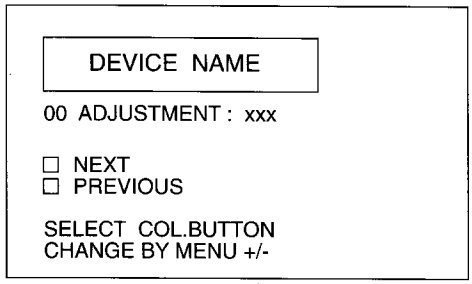


"TT " will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.



4. Press the Red (Next) and Green (Previous) buttons to select the device corresponding to the adjustment item from the table. Then press the White button (OK).



5. Press the Red (Next) or Green (previous) buttons to select the adjustment item. Then press the ▽ and △ buttons to change the data to comply with each standard.

6. Turn off the power to quit the service mode when adjustments are completed.

Initial Conditions for setup ofTDA8366,TDA6612,TDA6€ and SAA7283. (StereoModels Only)

TDA8366 1	INIT VALUE	TDA8366 2	INIT VALUI
Hue	31	Interlace	00
H Shift	Adj	Sync Mode	00
H Size	Adj	Col Dec	00
Pin Amp	Adj	Vert Div	00
Corn Pin	Adj	Vid ID	00
Tilt	Adj	EHT Track	01
V.Linear	Adj	En V Grd	00
V.Size	Adj	Serv Blk	00
S.Corr	Adj	OVP Mode	00
V.Cent	Adj	Aspect R	00
HWB Red	Adj	Start Freq	00
HWB Green	Adj	Y/C Input	00
HWB Blue	Adj	PAL/NTSC	00
Peaking	8	Xtal PLL	00
Bright	32	Y Delay	07
Colour	32	RGB Blk	00
Picture	37	Noise Cor	00
AGC Set	00	Fast Blk	01
Srce Sel 1	00	AFC Wind	00
Srce Sel 2	00	IF Sensty	00
Time Con	03	Mod Std	00
Xtal Ind	03	Vid Mute	01
FF Freq	02		

TDA6612 (TDA6622 for UKmodel.)	INIT VALUE	TDA6612 (TDA6622 for UKmodel.)	INIT VALUI
MPX Per	00	Mute 2	01
Quasi St	00	C1/2LS	00
Bass Exp	00	C1/2KH	00
H Pulse	00	Mono	01
Matrix St	00	Scart	00
Bypass	00	Scart D	00
Vol L Sp	07	AM	00
Vol R Sp	07	SAA7283	INIT VALUE
Vol HP	00	Mon M1/M2	01
Pll Sync	00	DM Select	01
Mute 3	01	SSWIT 123	07
Treble	08	Port 2	00
Bass	09	Mute Def	00
X Talk Adj	Adj	AMDIS	00
Mute 1	00	E Max	80
		E Min	01

2. TEST MODE 2 :

available by pressing Test button twice, OSD 'TT ' appears. The functions described below are available pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max.
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	"Menu" Flag request
10	Tenth entry is deleted
11	dummy
12	dummy
13	dummy
14	Forced AV 16:9 detection on/off
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Label for AV Sources
18	RGB Priority on/off
19	Clear all preset labels
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24	Set destination = U RGB Priority = Off
25	Set destination = D RGB Priority = Off
26	Set destination = B RGB Priority = On
27	Set destination = K RGB Priority = Off
28	Set destination = L RGB Priority = Off
29	Set destination = E RGB Priority = Off

30	Tenth entry is deleted
31	Set Destination = A RGB Priority = On
32	dummy
33	Auto AGC
34	N/S Pin Adjust
35	Manual AGC Adjust
36	dummy
37	dummy
38	To Activate Rotation Coil Adjustment
39	Check Rotation Coil Adjustment
40	Tenth entry is deleted
41	Re-initialise NVM
42	Production use only
43	Initialise Geom Settings
44	Initialise all favorite pages = 100
45	Channel locks = off
46	IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter (Ver 2 and above software only)
47	dummy
48	Set NVM testbyte to 44h
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by µ-Controller.

In Test Mode the Menu display is switchable by the Speaker-Off button.

Note : For Test Modes 41 - 49 it is necessary to ensure that the TV is set to Prog 59.

SUB BRIGHTNESS ADJUSTMENT

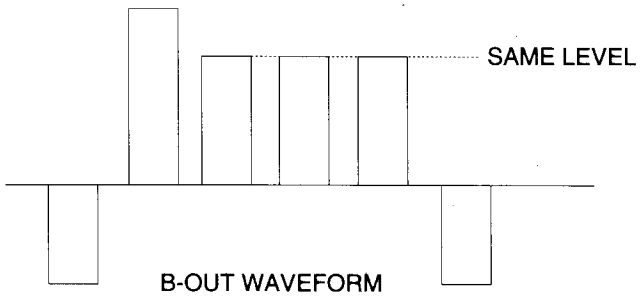
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin (1) of CN703 (R OUT) and adjust HWB Red data of TDA8366 1 to obtain 2.3Vp-p.

SUB COLOR ADJUSTMENT

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin (3) of CN703 (B OUT) on the C board.
3. Enter into service mode and press 22.
4. Adjust data so that the right sides of the waveform are set to the same level.



STEREO SEPARATION ADJUSTMENT

1. Input a 1KHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and select the "Test Menu" to be TDA6612. (TDA6622 UK models)
3. Select the Stereo Xtalk Adjustment Menu, by using the Red (Next) and Green (Previous) buttons.
4. Monitor the Scart 1 L-channel output and adjust the data so that the R-channel sound is not detected in the L-channel.

I.F. COIL ADJUSTMENT (T101) - B/G, D/K, I AN STANDARD FOR CONTINENTAL MODELS.

1. Apply a 38.9MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negat modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

I.F. COIL ADJUSTMENT (T101) - I, STANDARD FOR U.K. MODELS.

1. Apply a 39.5MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for nega modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

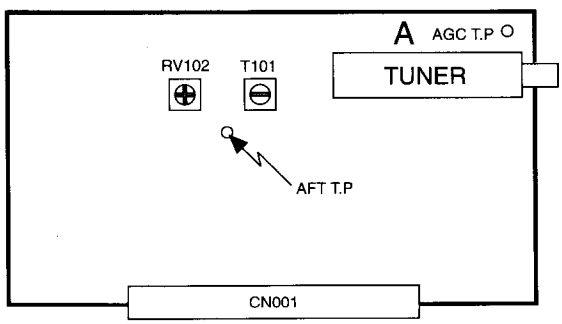
L, BAND 1 ADJUSTMENT (RV102) - L, STANDA FOR FRENCH MODELS.

1. Apply a 33.95MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for posit modulation and system L band 1.
3. Measure the voltage at the AFT test point and adjust (RV102) to obtain 2.4V +/- 0.2V.

Note : Only adjust RV102 after T101 has been correctly adjusted.

AGC ADJUSTMENT

1. Receive an off- air signal.
2. Enter the service mode, ("Test" "Test") and 35.
3. Adjust the data so that there is no snow or cross - modulation visible on the screen.
4. Change the receiving off-air channel, and confirm the above status.



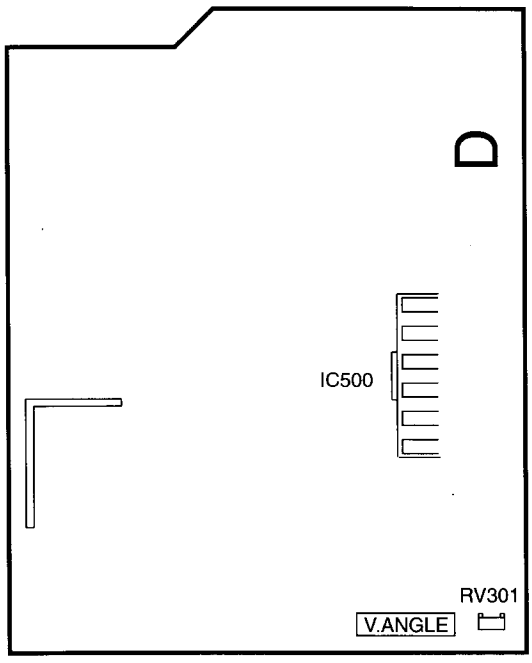
- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

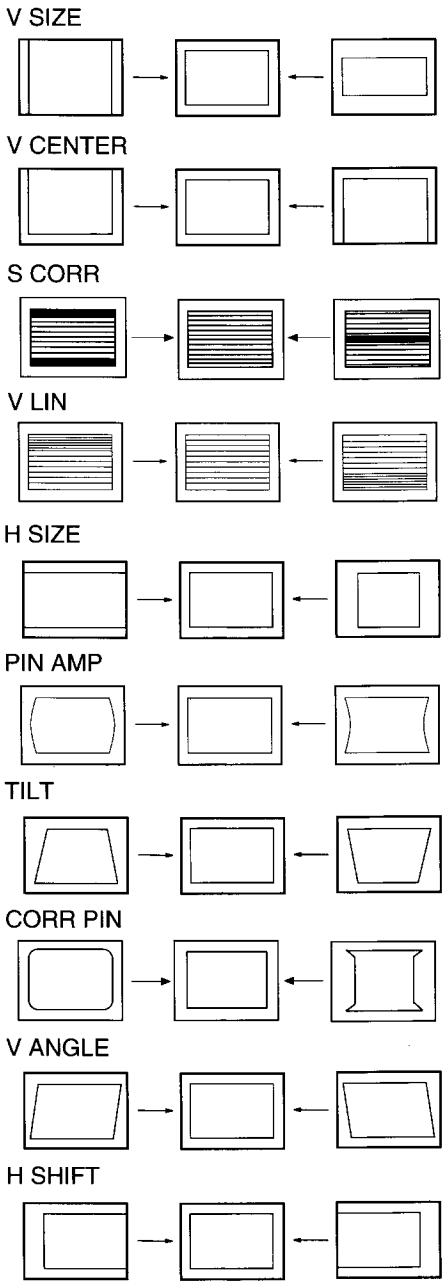
- Enter into service mode.
- Select and adjust each item in order to obtain the optimum image.

Item No	Adjustment item.	Data Amount
03	H SHIFT	ADJ.
04	H SIZE	ADJ.
05	PIN AMP	ADJ.
06	CORR PIN	ADJ.
07	TILT	ADJ.
08	V LINEAR	ADJ.
09	V SIZE	ADJ.
0A	S CORR	ADJ.
0B	V CENTER	ADJ.

Note : V ANGLE is adjusted by a Variable Resistor on the 'D' Board (RV301)



- D Board Component Side -



4-3. BE-3B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3B chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failiure to respon IIC. In the event of one of these situations arrising the software will first try to release the bus if busy (Failiure to do so will report with continous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a dev is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) Table 1., on fatal errors are reported with this method.

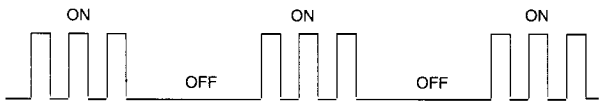
If a fatal error is found the set will simply stay in whichever state it was when the error occured, but if a non fatal error occur the set will try to continue operation.

Table 1

Device	LED Error Count	Fatal Error
NVM	2 .. 9	√
Teletext	10	
Jungle	11	√
Video_sw	12	
Tuner	13	√
Nicam	14	
Audio_cont	15	√

Flash Timing Example : e.g. error number 3.

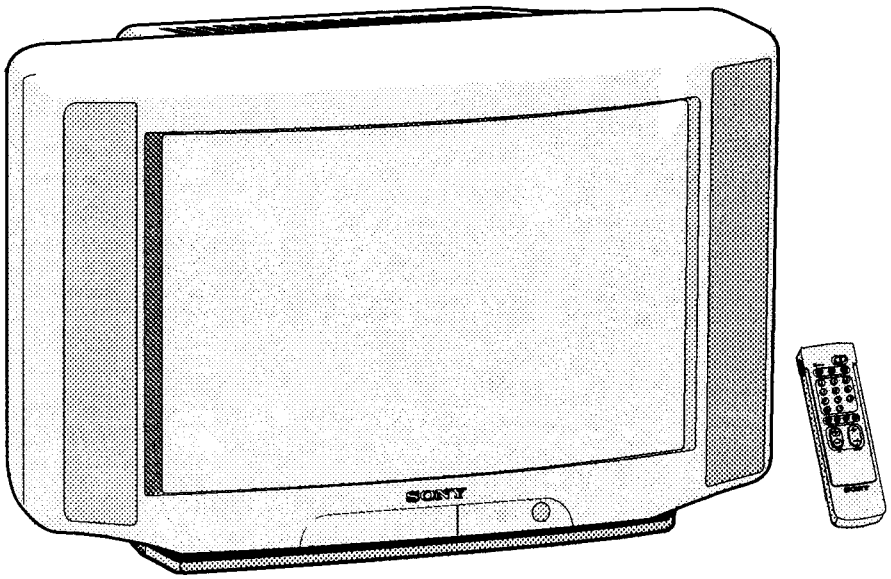
Stby LED



SERVICE MANUAL

BE-3B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-C2173B	RM-833	French	SCC-G85R-A
KV-C2171D	RM-833	AEP	SCC-G77T-A
KV-C2173E	RM-833	Spanish	SCC-G82R-A
KV-C2171K	RM-833	OIRT	SCC-G86J-A
KV-C2171KR	RM-833	Russian	SCC-G86S-A



MICROFILM

TRINITRON® COLOUR TV

SONY®

ITEM MODEL	Television System	Channel Coverage	Colour System
French	B/G/H	B/G/H VHF : E2-E12, UHF : E21-E69 Cable TV (1) : S1-S41 Cable TV (2) : S01-S05, M1-M10, U1-U10 Italy : A-H, H1, H2	PAL NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1) : S1-S41 Cable TV (2) : S01-S05, M1-M10, U1-U10 Italy : A-H, H1, H2 D/K VHF : R01-R12, UHF : R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)
Spanish	B/G/H	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1) : S1-S41 Cable TV (2) : S01-S05, M1-M10, U1-U10 Italy : A-H, H1, H2	PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1) : S1-S41 Cable TV (2) : S01-S05, M1-M10, U1-U10 Italy : A-H, H1, H2 D/K VHF : R01-R12, UHF : R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)
Russian	B/G/H, D/K	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1) : S1-S41 Cable TV (2) : S01-S05, M1-M10, U1-U10 Italy : A-H, H1, H2 D/K VHF : R01-R12, UHF : R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)

MODEL	French	AEP	Spanish	OIRT	Russian
Power Consumption	75W	75W	75W	75W	75W

Specifications

Picture tube — Hi-Black Trinitron
Approx. 54 cm (21 inches)
(Approx. 51 cm picture measured diagonally)
100° -deflection

Input/Output Terminals

[REAR]

1 21-pin Euro connector (CENELEC standard)
- Inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals

2 / S 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)

[FRONT]

3 Video input - phono jack
3 Audio inputs - phono jacks
3 S video input - 4-pin DIN
Ω Headphone jack - Stereo minijack

Sound output — 2x20W (Music power)
Approx. — 652 x 433 x 488 mm
Weight — Approx. 26 kg

Supplied accessories — RM-833 Remote Commander (1)
IEC designation R6 battery (1)

Other features
Fastext
TOPtext (KV-C2173B/C2171D/C2171K/C2171KR only)
Nicam (KV-C2173B/C2173E only)

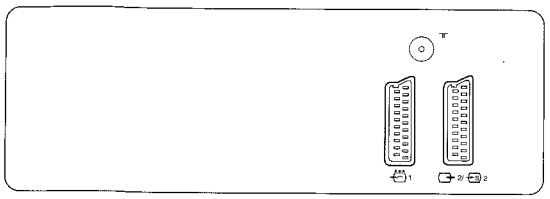
[RM-833]

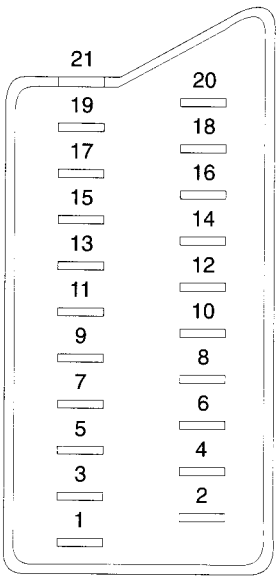
Remote control system — infrared control
Power requirements — 1.5V dc
1 battery IEC designation
R6 (size AA)
Dimentions — Approx. 65 x 222 x 21 mm (w/h/d)
Weight — Approx. 157g (Not including battery)

Design and specifications are subject to change without notice.

Item \ Model name	KV-C2173B	KV-C2171D	KV-C2173E	KV-C2171K	KV-C2171KR
Pal Comb	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF
NICAM	ON	OFF	ON	OFF	OFF
RGB Priority	ON	ON	ON	OFF	OFF
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON
Norm I	OFF	OFF	OFF	OFF	OFF
Norm D/K	OFF	ON	OFF	ON	ON
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Language Preset	French	German	Spanish	OIRT	Russian

21 pin connector (1 / 2 / S 2)

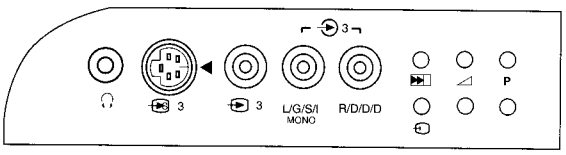




Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	○	○	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	○	○	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal:0.7V±3dB. 75ohms, positive
12	○	○	Open	
13	○	○	Ground(red)	
14	○	○	Ground (blanking)	
15	○	—	Red input	0.7V±3dB, 75ohms, positive
	—	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
20	○	—	Video input	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
	—	○	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
21	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

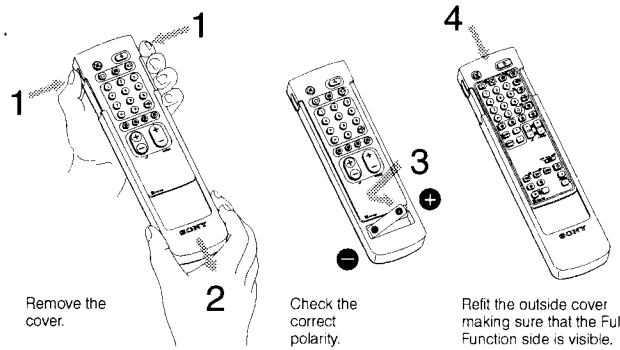
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started

Inserting the Battery Into the Remote Commander



Remove the cover.

Check the correct polarity.

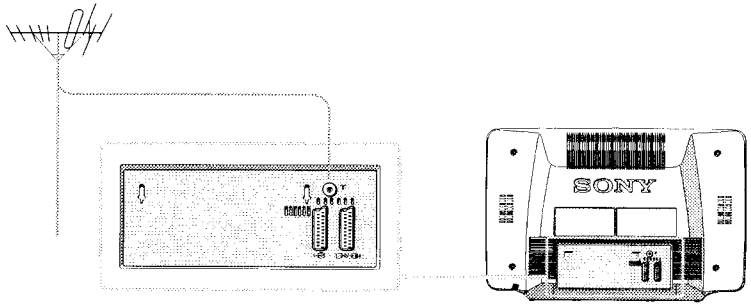
Refit the outside cover making sure that the Full Function side is visible.

About Battery Life
Under normal operation, a battery will last up to half a year.

Always remember to dispose of used battery in an environmental friendly way.

Connecting the Aerial

Connect the aerial to the ⊤ socket at the rear of the TV.
(cable not supplied)



Choosing a Language

(See inside of front cover and back cover)

1 Depress ⏻ A on the TV.
The TV turns on. If the standby indicator B on the TV is lit, press ▢ 3 or any number button 4 on the Remote Commander.

2 Press MENU 7 on the Remote Commander.
The SELECT LANGUAGE screen appears. MENU

3 Press one of the colour buttons 17 on the Remote Commander to select a language (Press the white button 17 to display other language alternatives). The SELECT LANGUAGE screen clears and all subsequent menus appear in the chosen language.

SELECT LANGUAGE
▶ ENGLISH
• DEUTSCH
• FRANCAIS
• ITALIANO
• MORE

SELECT COL. BUTTON

Note: From the second time when you turn on the TV, the MENU screen appears instead of the SELECT LANGUAGE screen. Press the yellow button 17 then press the white button 17 to redisplay the SELECT LANGUAGE screen.

Tuning in to Channels

You can tune in up to 100 channels to programme positions either automatically or manually.

auto tuning: A single button press allows all receivable channels to be tuned. Use if you are unfamiliar with the channel numbers of stations.

manual tuning: Use if you are familiar with the channel numbers of stations.

Choose the more appropriate way for you.

Tuning in to Channels Automatically

There are two possibilities for auto tuning;

A. On the TV: hold down ⏭ E on the front of the TV for 2 seconds
Note: The button ⏭ E for Automatic Presetting of channels is protected to prevent accidental usage. Use the tip of a pencil to press it.
or

B. On the Remote Commander: as follows

1 Press MENU 7.

2 Press the white button 17.

3 Hold down the red button 17 for 2 seconds,

Note: Press the green button 17 to cancel.

Tuning in to Channels Manually

1 Press MENU 7.
The MENU screen appears. MENU

2 Press the white button 17 to select PRESET.
The PRESET screen appears.

PRESET
▶ AUTO TUNING
• MANUAL TUNING
• PROGR. EXCHANGE
• EDIT PROGR. NAME
• FINE TUNE

SELECT COL. BUTTON

3 Press the green button 17 to select MANUAL TUNING
The MANUAL TUNING screen appears.

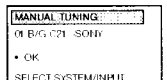
MANUAL TUNING
01 B/G C21 –SONY
• SKIP OFF
• OK

ENTER PROGR. NO.
USE NO. BUTTONS OR
CHANGE BY MENU +/-

4 Press the number buttons ❹ or MENU +/– ❾ to select a programme position.
If you use the number buttons ❹, enter a double-digit number. (e.g. for programme number 4, first press 0, then 4)

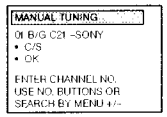
5 Press the green button ⓱.

Note: Use MENU +/– ❾ to select TV system.
You can alternatively select input sources which may be assigned to programme positions.
The display changes as follows:
B/G ➡ D/K ➡ AV1 ➡ RGB ➡ AV2 ➡ YC2 ➡ AV3 ➡ YC3



6 Pess the green button ⓱.

Note: If a video input source is selected in step 5, this is now stored.
Refer to step 4 to tune other programme positions.



7 If you have selected B/G in step 5, press the red button ⓰ to select C (regular channel) or S (cable channel).

8 Press the number buttons ❹ or MENU+/– ❾ to select the channel number.
If you use the number buttons ❹, enter a double-digit number. (e.g. for channel 23, first press 2, then 3)

9 Press the green button ⓱ to store.

Note: If you want to preset other channels, repeat steps 4 to 9.

10 Press MENU ❼ twice to return to the normal screen.

Note: You can skip unused programme positions when selecting programmes with the PROGR +/– buttons ⓲.
Press the red button ⓰ to skip in step 4. However, the skipped programmes may still be called up when you use the number buttons.

Basic TV Operations

Turning the TV on and off

Turning on
Depress ⏻ Ⓐ on the TV.

Turning off temporarily
Press ⏻ ⓰ on the Remote Commander.
The TV enters standby mode and the standby indicator Ⓑ on the front of the TV lights up.

Turning on again
Press ▭ ❸, PROGR +/– ⓲, or one of the number buttons ❹ on the Remote Commander.

Turning off completely
Depress ⏻ Ⓐ on the TV.
Note: It is recommended to use ⏻ Ⓐ to turn off the TV. This could help you save energy.

Selecting TV Programmes

Press PROGR +/– ⓲ or press the number buttons ❹.

To select a double-digit number
Press -/-- ❺, then the number buttons ❹.

Adjusting the Volume

Press 🔊 +/– ⓳.

Muting the Sound

Press 🔇 ❶
To resume normal sound, press 🔇 ❶ again.

Displaying the On-screen Indications

Press ⓘ ⓰ once to display the on-screen indications.
Press again to make the indications disappear.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can adjust or select the functions as follows:
Press 🔊 +/– Ⓓ to adjust the volume.
Press P +/– Ⓒ to select programme numbers or to turn the TV on from the standby mode.
Press ⇨ Ⓕ to select the input source.
Press ⏭ Ⓔ to preset channels automatically.

Advanced TV Operations

Operating the Menu System

You can adjust picture and sound, preset channels to programme positions and utilise other convenient features by using the following menu system.

Press:	to:
1 MENU ❼ (MENU)	enter the MENU screen
2 a colour button ⓰ (■)	select an item you want to change (The selected item is marked by a triangle.)
3 MENU +/– ❾ (MENU) (+) (–)	change (or adjust) the contents of the item
4 MENU ❼	return to the MENU screen
5 MENU ❼ again	return to the normal screen
Press MENU ❼ once or twice whenever you want to return to the normal screen.	

Note: When selecting menus, the picture becomes darker. If, however, an item in the PICTURE ADJUSTMENT menu is selected, normal level of TV picture is restored to allow the best adjustment.

Adjusting the Picture and Sound

Although picture and sound are adjusted at the factory you can adjust them to suit your own taste.

1 Press MENU ❼.
The MENU screen appears. (MENU)

2 Press the red button ⓰ to select PICTURE or the green button ⓱ to select SOUND.

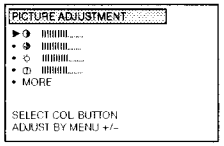
3 Press the respective colour button ⓱ to select an item.

4 Press MENU +/– ❾ to adjust.

5 Press MENU ❼ twice or wait until the menu displays disappear automatically to return to the normal screen.

PICTURE ADJUSTMENT

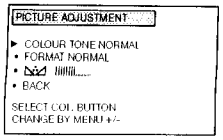
(First Page)



Press colour button	Effect
Red: For Picture ◑	Less —+— More
Green: For Colour ◕	Less —+— More
Yellow: For Brightness ☼	Darker —+— Brighter
Blue: For Sharpness ⓣ	Softer —+— Sharper
White:	Next page of PICTURE ADJUSTMENT

PICTURE ADJUSTMENT

(Second Page)

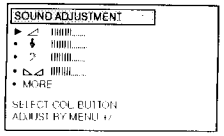


Press colour button	Effect
Red: For Colour Tone	Normal ⇨ Warm (reddish colour tone) ⇨ Cool (blueish colour tone)
Green: For Format	Normal: Normal setting 16:9 Wide screen effect
Blue: For Hue control (only for NTSC video signals)	Reddish —+— Greenish
White:	Back to first page of PICTURE ADJUSTMENT

Note: Press →•← ❽ on the Remote Commander to reset to the factory preset levels for picture and sound.

SOUND ADJUSTMENT

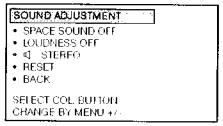
(First Page)



Press colour button	Effect
Red: For Volume	Less —+— More
Green: For Treble	Less —+— More
Yellow: For Bass	Less —+— More
Blue: For Balance	More left – more right
White:	Next page of SOUND ADJUSTMENT

SOUND ADJUSTMENT

(Second Page)



Press colour button	Effect
Red: For Space Sound	OFF: normal sound ON: for a special acoustic sound effect
Green: For Loudness	OFF: normal sound ON: when listening to low volume sound
Yellow: For Stereo/Dual	Stereo ⇨ Mono A (left channel) ⇨ Mono B (right channel) ⇨ Mono
Blue: For Reset	Resets picture and sound to the factory preset levels.
White:	Back to first page of SOUND ADJUSTMENT

Note: Press →•← ❽ on the Remote Commander to reset to the factory preset levels for picture and sound.

Using Special Features

With your TV you can utilise special features such as Parental Lock or Sleep Timer.

1 Press MENU ❼.
The MENU screen appears.

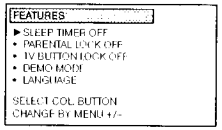
2 Press the yellow button ⓱ to select FEATURES.

3 Press the respective colour button ⓱ to select an item.

4 Press MENU +/- ❾ to change.

5 Press MENU ❼ twice or wait until the menu displays disappear automatically to return to the normal screen.

FEATURES



Press colour button	Effect
Red: For Sleep Timer (Automatic switch off function)	OFF ⇨ 0:30 ⇨ 1:00 ⇨ 1:30 ⇨ 2:00 (hours) After the selected time the TV set switches itself automatically into standby mode.
Green: For Parental Lock (For preventing children from watching programmes which you consider unsuitable)	OFF: Normal setting ON: The TV-channel you are watching is now blocked. In this way you can prevent undesirable broadcasts from appearing on the screen.
Yellow For TV Button Lock	OFF: Normal setting ON: The buttons on the TV do not function anymore. (The Remote Commander still operates)
Blue: For Demo Mode	ON: A sequence of menu pictures is displayed. Press any button on the Remote Commander to stop the function.
White: For Language	The SELECT LANGUAGE screen appears.

Advanced Presetting Functions

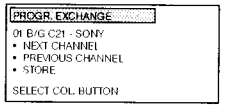
Exchanging Programme Positions

You can exchange the programme positions to a preferred order (example: exchange programme 09 (channel C21) with programme 15 (channel C24)).

1 Press MENU ❼.
The MENU screen appears

2 Press the white button ⓱.
The PRESET screen appears.

3 Press the yellow button ⓱.
The PROGR. EXCHANGE SCREEN appears.



4 Press the white button ⓱ repeatedly until the desired programme number (09) appears.

5 Press the red or the green button ⓱ repeatedly until the desired channel number (C24) appears.

6 Press the white button ⓱ to store.
Now the exchange has been completed. Channel C24 is tuned in to programme 09 and channel C21 is tuned in to programme 15.

7 Press MENU ❼ twice to return to the normal screen.

Editing Programme Names

You can edit the programme names up to five letters.

1 Press MENU ❼
The MENU screen appears.

2 Press the white button ⓱.
The PRESET screen appears.

3 Press the blue button ⓱.
The EDIT PROGR. NAME screen appears.
The first character flashes.

4 Press MENU +/- ⑨ to edit the first letter.
The first letter changes as follows
A ⟷ B ⟷ ... ⟷ Z ⟷ 1 ⟷ ... 9 ⟷ "–" (space).

5 Press the red button ⑰ to move to the next letter.

6 Repeat steps 4 to 5, until the fifth letter is chosen.

7 Press the green button ⑰.
The programme name is stored, and the normal screen appears. To edit another programme name, repeat steps 1 to 7.

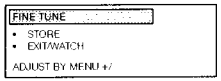
Fine Tuning

You can adjust the receiving conditions by the FINE TUNE function.

1 Press MENU ⑦
The MENU screen appears. (MENU)

2 Press the white button ⑰.
The PRESET screen appears.

3 Press the white button ⑰ again.
The FINE TUNE screen appears.



4 Press MENU +/- ⑨ to adjust the receiving condition.

5 Press the red button ⑰ to store the adjustment, or press the green button ⑰ not to store.
Now the normal screen appears. If you have pressed the green button, the fine tuned condition is cancelled once you choose another programme.

Note: If the FINE TUNE screen disappears automatically before you press the red button ⑰, the fine tuned condition is not stored. Repeat steps 1 to 5.

Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset.

1 Press C ⑯ on the Remote Commander.
For cable channels press **C** ⑯ twice. The indication "C" (or "S" for cable channels) appears on the screen.

2 Enter a double digit channel number using the number buttons (e.g. for channel 23, first press 2, then 3).
The channel appears.
However, the channel is not stored.

Teletext Operation

TV stations broadcast teletext programmes via the TV channels. For basic operation of teletext, use the simple side of the Remote Commander. For the advanced features of teletext, use the buttons indicated in green on the full function side of the Remote Commander.

Basic Teletext Operation

Switching Teletext on and off

1 Select the channel which carries the teletext service you wish to view.

2 Press ⊜ ⑪ to display Teletext.
If no teletext signal is broadcast, the indication P100 is displayed on a black screen.

3 Input three digits for the page number using the number buttons ④.
The numbers are displayed on the screen and the requested page appears in a few seconds.
Note: If you make a mistake, type in any three digits, then re-enter the correct page number.

4 Press ▢ ③ to return to the TV mode.

Notes:
• To change the teletext channels. First press ▢ ③ to return to the TV mode, then repeat steps 1 to 3.
• If the signal of a TV channel is weak, teletext errors may occur.

Advanced Teletext Operation

Using Fastext
With Fastext you can access pages with one button press. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons ⑥ on the Remote Commander.
Press the corresponding colour button ⑥ on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed in a few seconds.

Requesting the Index page
Press ⊟ ⑰. The Index page appears.

Accessing the next or preceding page
Press ⊡ (PAGE –) or ⊡ (PAGE +) ⑱. The next or the preceding page appears on the screen.

Superimposing the teletext display on the TV picture
Press ⊜ ⑪ once if you are in text mode or press ⊜ ⑪ twice if in TV mode.
To return to the normal teletext display press ⊜ ⑪ twice.

Preventing a teletext page from being updated or changed
Press ⊞ (HOLD) ②. The HOLD symbol (⊞) appears on the screen and the selected subpage is held until you press ⊜ ⑪ to cancel.

Enlarging the teletext display
Press ⊞ ⑮ once to enlarge the upper half. Press twice to enlarge the lower half.
Press again to restore the normal display.

Revealing concealed information (e.g. answers to a quiz)
Press ⊡ (REVEAL) ⑭. The information is revealed. Press ⊡ ⑭ again to conceal the information.

Watching TV while waiting for a requested page to be displayed

1 Request a new teletext page.

2 Press ⊠ (TEXT CL) ⑫.
The TV programme is displayed and the symbol ⊜ is displayed at the top of the page.
Note: When the requested page is available the page number is displayed at the top of the screen.

3 Press ⊜ ⑪ to view the page.

To cancel the request
Display the teletext page, then press ⊜ ⑪. The request is now cancelled. Press ▢ ③ to resume TV mode.

Using the Favourite Page system
You can store up to four of your favourite teletext pages per programme with the help of the Favourite page system. In this way you have quick access to the pages you watch frequently.

Storing the Favourite Pages

1 Select the page you would like to store using the number buttons ④.

2 Press ⇢ ⑮ twice.
The colour prompts at the bottom of the screen flash.

3 Press any of the colour buttons ⑥ on the Remote Commander to store the selected page.
The page is now stored on this button.

Repeat steps 1 to 3 for the other 3 pages available.

Displaying the Favourite pages

1 Press ⇢ ⑮.

2 Press the colour button ⑥ corresponding to the colour prompt onto which the desired page is stored.
The page is requested. (It may take a few seconds to be received).

Note: Step 1 must be taken before every favourite page selection otherwise the normal Fastext facility operates.

Using the Time Function in the TV mode
Press ⊡ ⑫ to request the time. Press again to cancel the request.
Note: This function is available only when teletext is broadcast.

Connecting Other Equipment

You can connect optional audio/video equipment to this TV such as VCRs, video disc players, cameras or stereo systems.

Connector	Acceptable input signal	Available output signal
1 M (AV1/RGB)	Audio/video and RGB signal	Audio/video signal from TV Tuner
2/ 2 L (AV2/YC2)	Audio/video and S-video signal	Audio/video signal from selected source
3/ 3 G H (AV3)	Audio/video signal	No outputs
3/ 3 G I (YC3)	Audio/S-video signal	No outputs

To watch a video input picture, press ❷ until the desired video input appears.
To return to the normal TV picture, press ❷ repeatedly or press ❸.
If you have a decoder, connect it to 1 M

Connecting a VCR Using the TV Aerial Terminal

Connect the aerial output of the VCR to the aerial terminal K of the TV. It is recommended to tune in the VCR signal to programme number "0". For details, see "Tuning in to Channels Manually" on page 20.

S video input (Y/C input) I L.
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.
Separating the Y and C signals prevents them from interfering with each other and therefore improves the picture quality (especially luminance). This TV is equipped with 2 video input terminals through which these signals can be input directly.

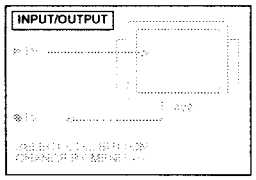
Checking and Selecting the Input and Output Sources Using the Menu

You can display a menu screen to see which input and output source are selected. You can also change the selecting using this menu.

Checking the Input and Output Sources

1 Press MENU ❼.
The MENU screen appears.

2 Press the blue button ⓱ to select INPUT/OUTPUT.
The INPUT/OUTPUT screen appears.



Selecting an Input Signal

Press the red button ⓱ to select INPUT. Press MENU +/– ❾ to select the desired input source.
You can select among the following sources:

TV ⟷ AV1 ⟷ RGB ⟷ AV2 ⟷ YC2 ⟷ AV3 ⟷ YC3

Selecting an Output Signal

The 2/ 2 connector L outputs the source input from the other connectors. Press the green button ⓱ to select OUTPUT. Press MENU +/– ❾ to select the desired output source.
You can select among the following sources:

TV ⟷ AV1 ⟷ AV2 ⟷ YC2 ⟷ AV3 ⟷ YC3

Note: Press ❼ twice or wait until the menu display disappears automatically to return to the normal screen.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8 mm or VHS VCRs or video disc players.

Tuning the Remote Comander to the equipment

1 Set the VTR 1/2/3 MDP selector ⓴ according to the equipment you want to control:
VTR 1: Beta or VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video Disc Player

2 Use the buttons ❹ to operate the additional equipment.

Notes:
• If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MCP selector on the TV Remote Commander.
• If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate
• When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Using Headphones

You can utilise headphones. Connect them to the headphone jack J, then the sound from the speakers goes off.
Note: You can't control the sound adjustment except for volume.

For your Information

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound
- Plug the TV in.
- Press ⏻ A on the TV. (If the standby indicator B is lit, press ❸ or any number button ❹ on the Remote Commander.)
- Check if the selected video source is on.
- Turn the TV off for three or four seconds and then turn it on again using ⏻ A.

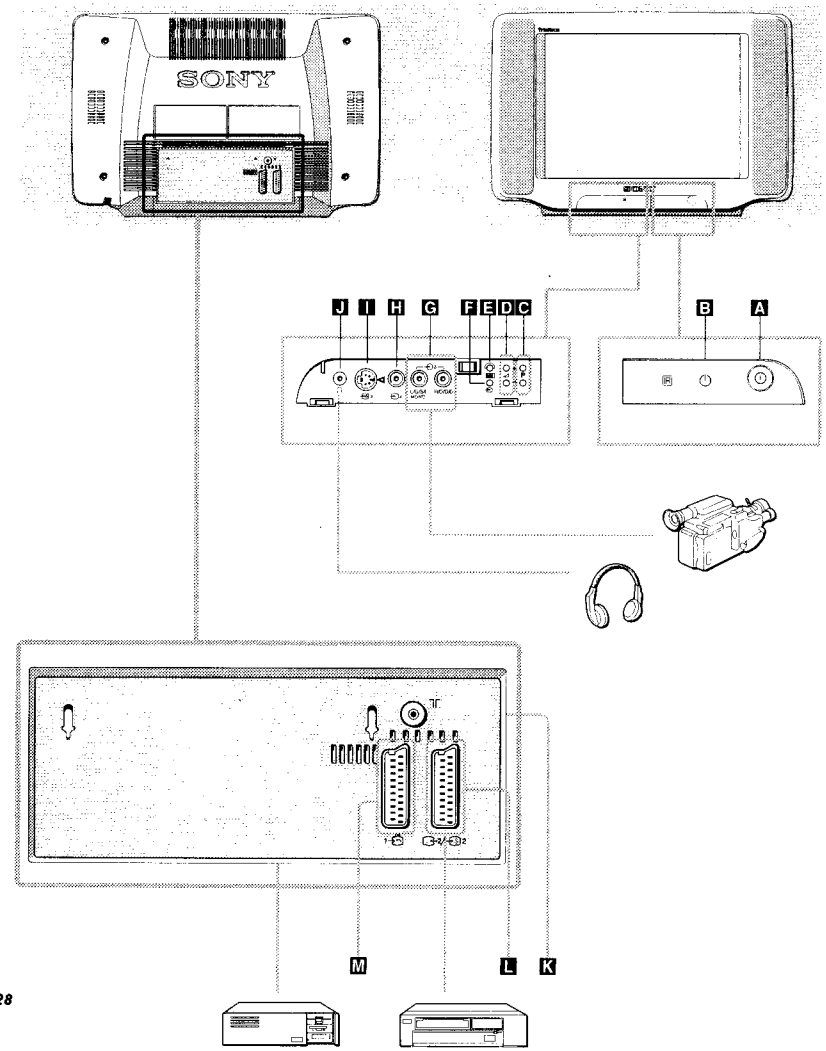
Poor or no picture (screen is dark), but good sound
- Press MENU ❼ to enter the MENU screen, and press the red button ⓱, then adjust ◑ and ☼.

Good picture but no sound
- Press + ⓰.
- If is displayed on the screen, press ❶.

No colour for colour programmes
- Press MENU ❼ to enter the MENU screen, and press the red button ⓱, then adjust ◔.

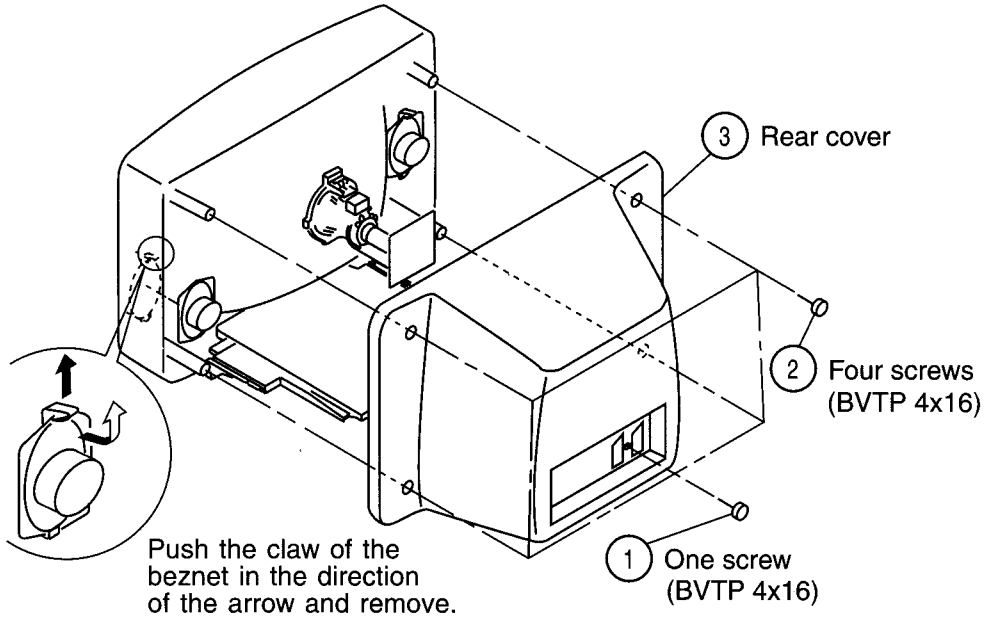
Remote Commander does not funcion
- Replace the battery.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

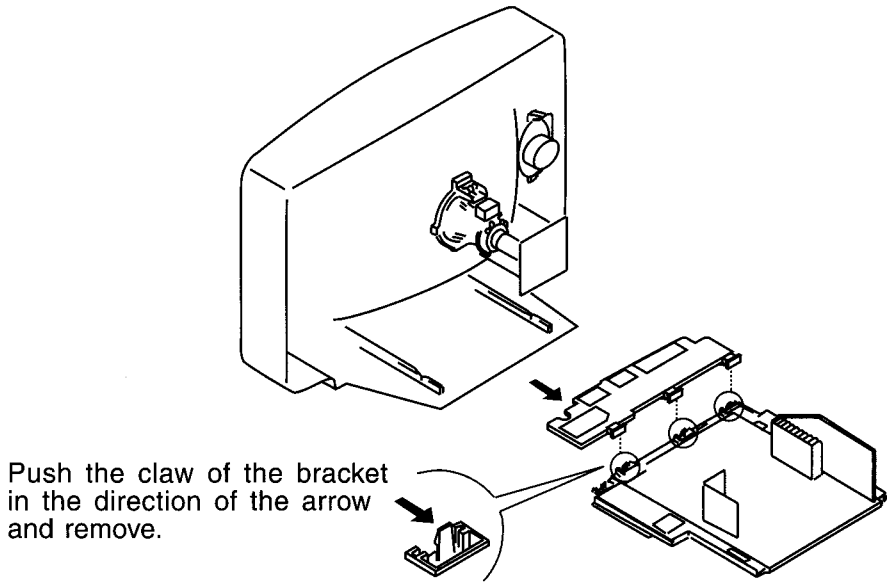


SECTION 2
DISASSEMBLY

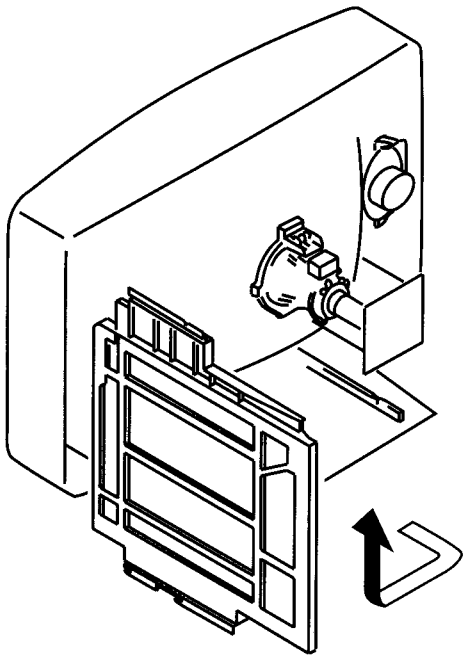
2-1. REAR COVER AND SPEAKER REMOVAL



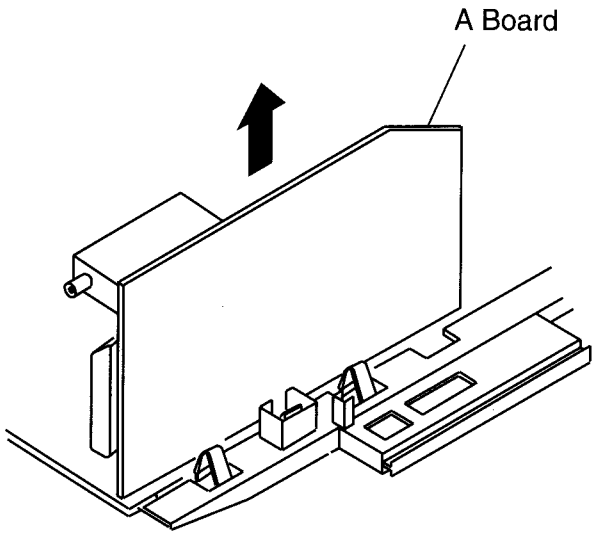
2-2. CHASSIS ASSY AND H BRACKET REMOVAL



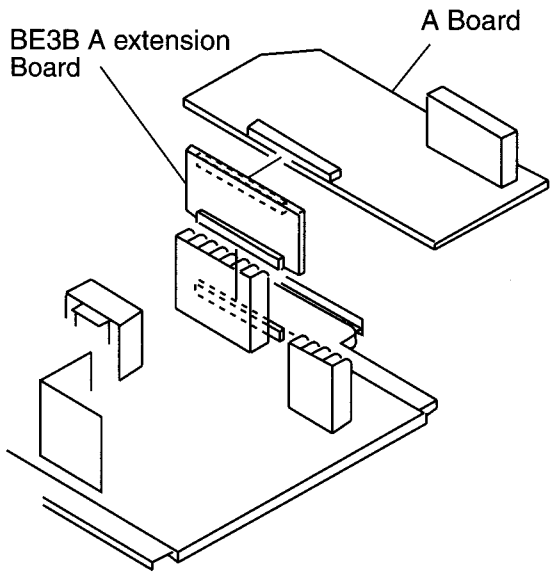
2-3. SERVICE POSITION



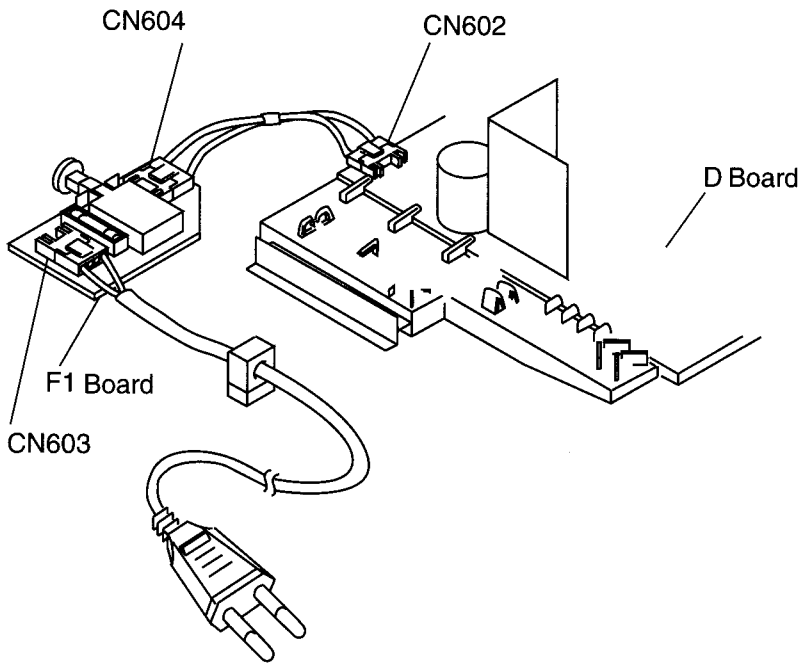
2-4. A BOARD REMOVAL



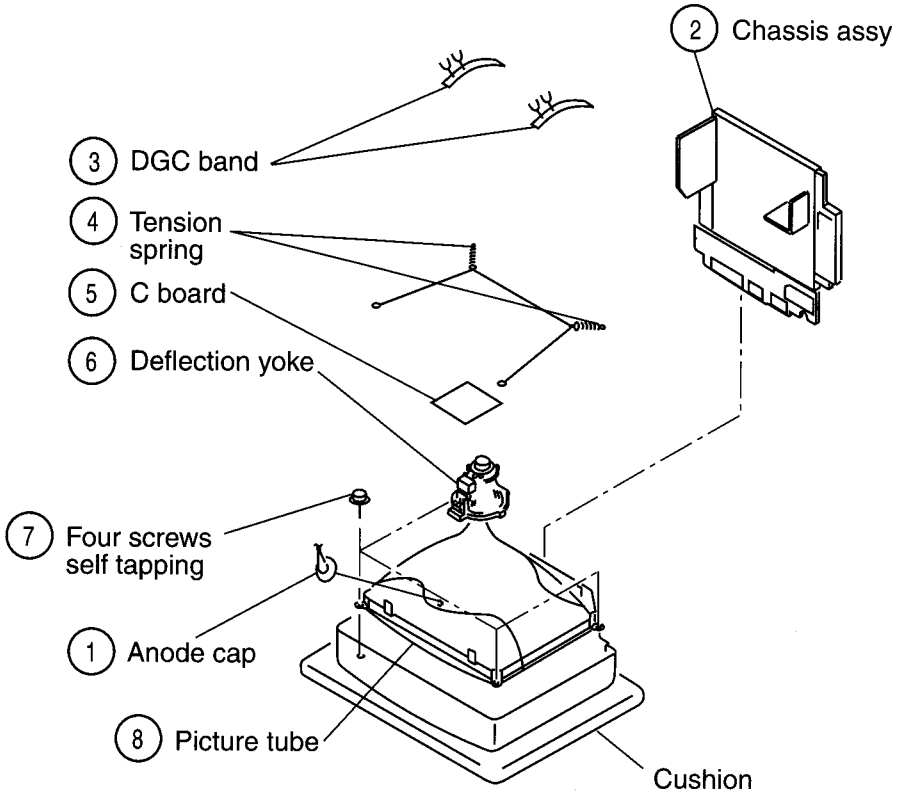
2-5. EXTENSION BOARD



2-6. WIRE DRESSING



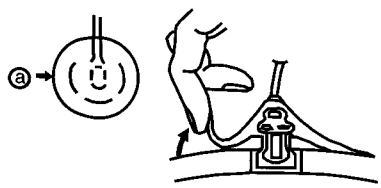
2-7. PICTURE TUBE REMOVAL



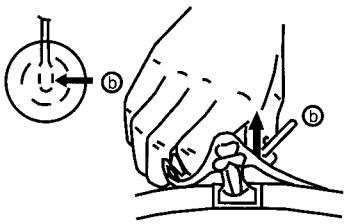
• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

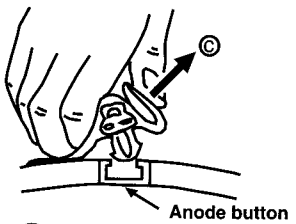
*** REMOVING PROCEDURES.**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ



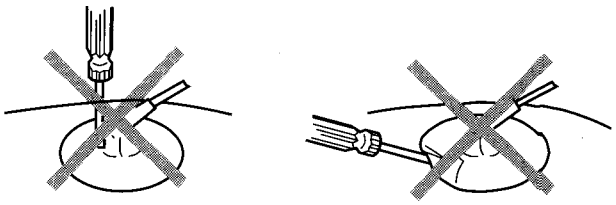
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

• HOW TO HANDLE AN ANODE-CAP

① Don't damage the surface of anode-cap with sharp shaped material !

② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.

③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

◑ Contrast ..... 80% (or remote control normal)
☼ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.
1. Colour bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:
- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   CONTRAST, BRIGHTNESS } normal
2. Set the pattern generator raster signal to red.
3. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
4. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
5. Switch the raster signal to blue, then to green and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

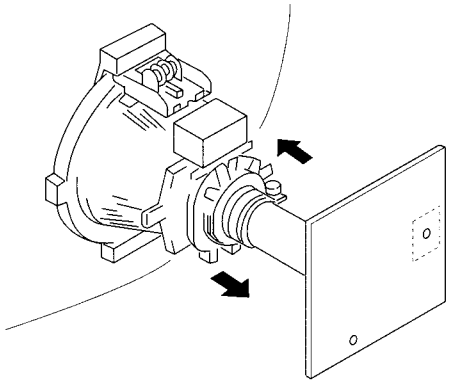
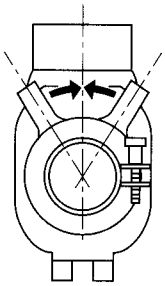


Fig. 3-1

Fig. 3-2



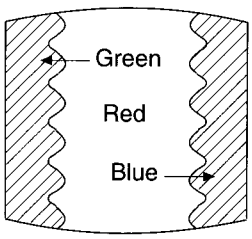


Fig. 3-3

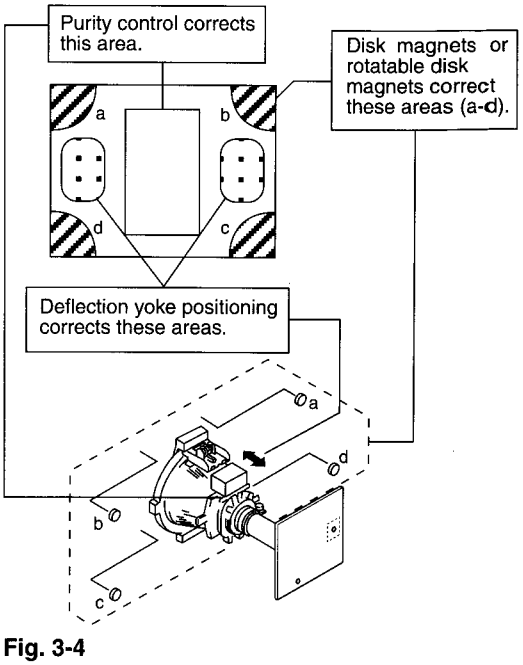


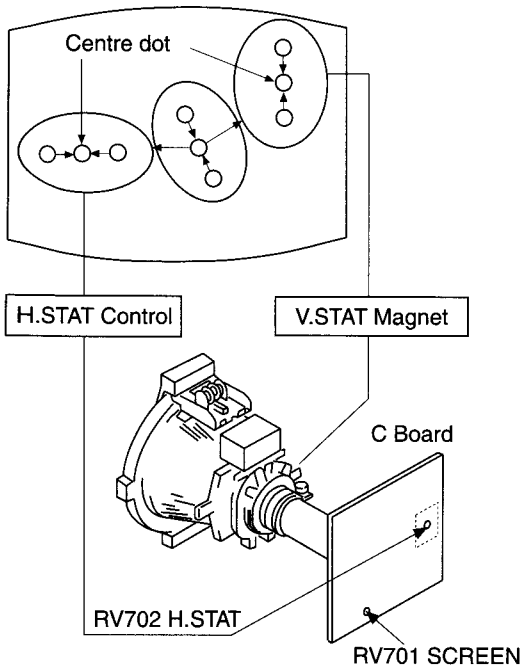
Fig. 3-4

3-2. CONVERGENCE

Preparation:

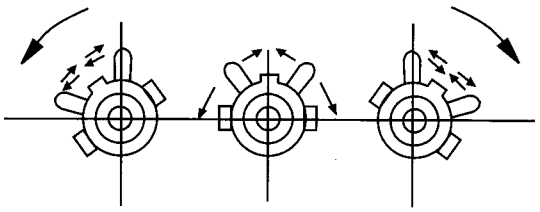
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

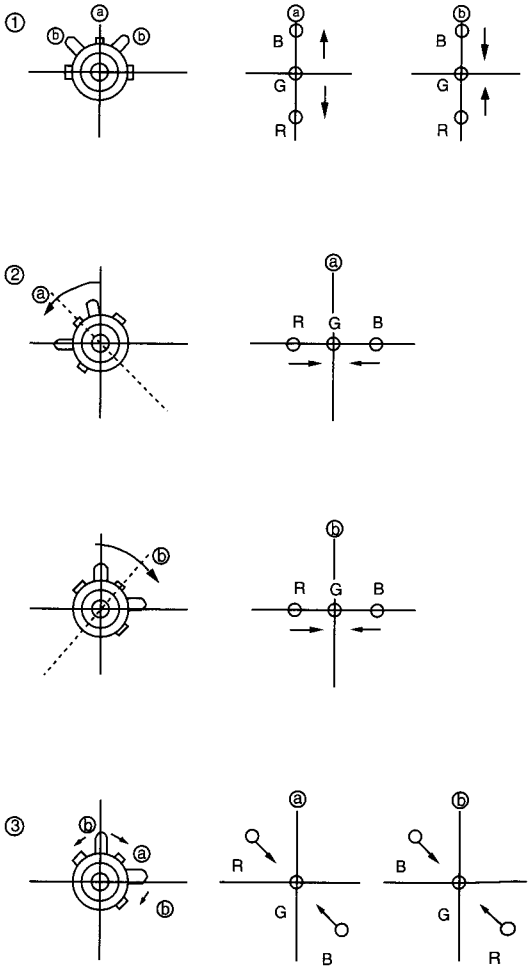


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

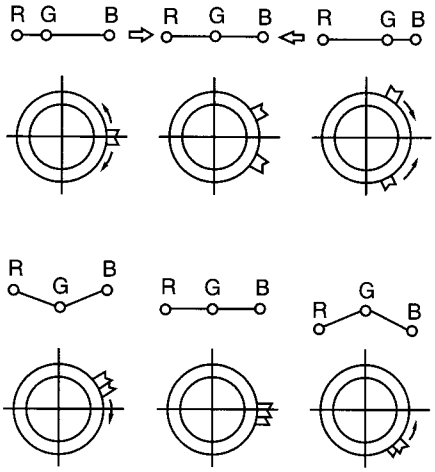
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

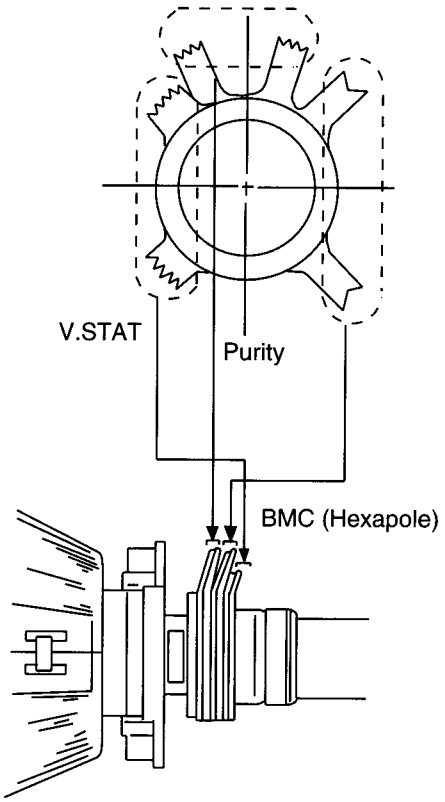


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet





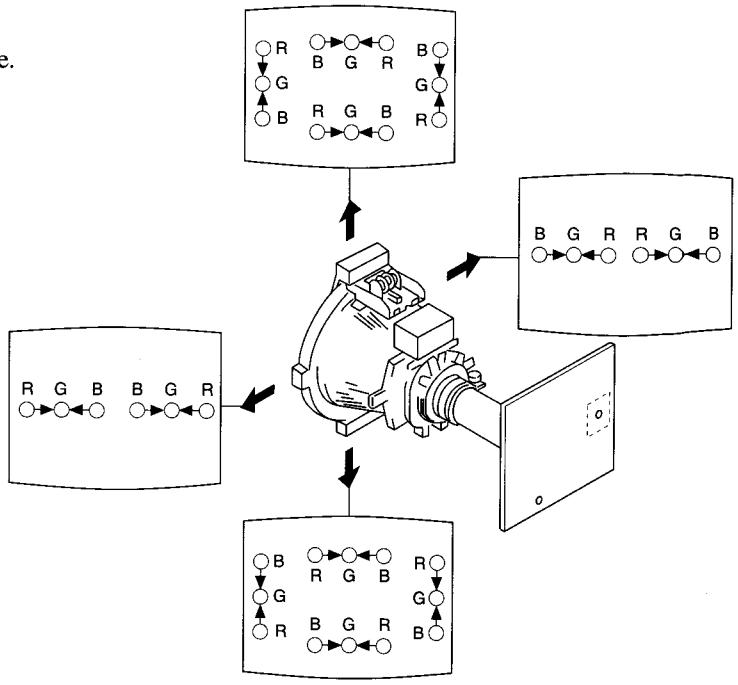
- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment.

Preparation:

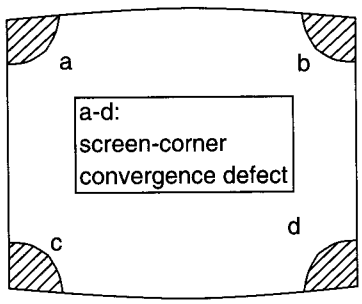
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

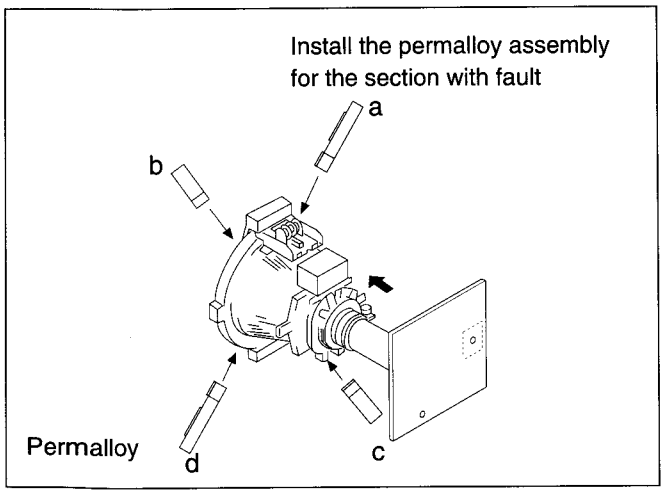
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Re-install the deflection yoke spacer.



(3) Screen corner convergence.

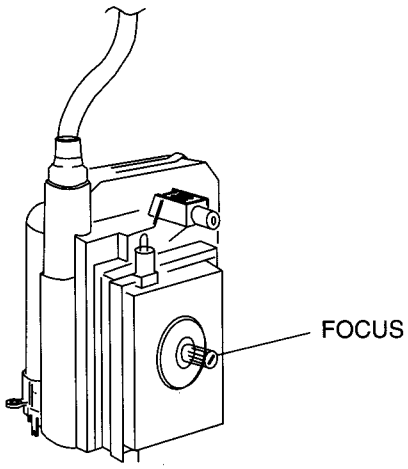
If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.





3-3. FOCUS

Adjust the focus to optimize the screen.



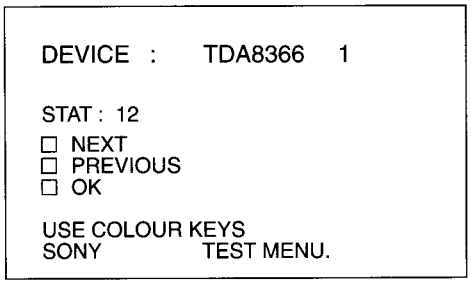
3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" on how to enter service mode.)
3. Select TDA8366 1 on menu.



4. Press the White button on the Remote Commander to enter into the device Menu.
5. Press the Red button 10 times "Next" "Next" "Next" to select HWB RED, adjust to 32.
6. Press the Red button to select HWB GREEN, adjust with the + and - menu buttons so that the white balance becomes optimum.
7. Press the Red button to select HWB BLUE, adjust with the + and - menu buttons so that the white balance becomes optimum.
8. Press the TV button twice on the Remote Commander to store the data and return to TV operation.

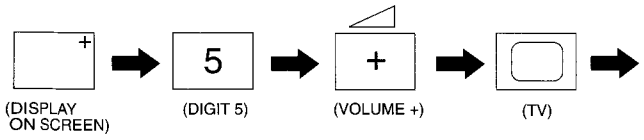
SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-833.

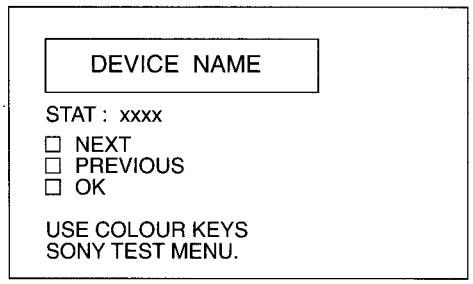
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.

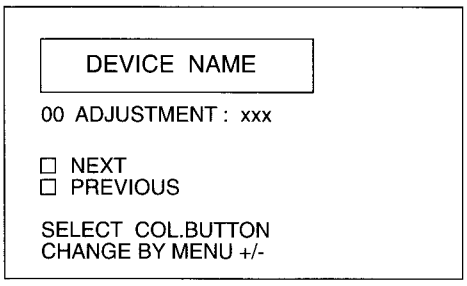


"TT " will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.



4. Press the Red (Next) and Green (Previous) buttons to select the device corresponding to the adjustment item from the table. Then press the White button (OK).



5. Press the Red (Next) or Green (previous) buttons to select the adjustment item. Then press the ▽ and △ buttons to change the data to comply with each standard.

6. Turn off the power to quit the service mode when adjustments are completed.

Initial Conditions for setup of TDA8366, TDA6612 and SAA7283.

TDA8366 1	INIT VALUE	TDA8366 2	INIT VALUE
Hue	31	Interlace	00
H Shift	Adj	Sync Mode	00
H Size	Adj	Col Dec	00
Pin Amp	Adj	Vert Div	00
Corn Pin	Adj	Vid ID	00
Tilt	Adj	EHT Track	01
V.Linear	Adj	En V Grd	00
V.Size	Adj	Serv Blk	00
S.Corr	Adj	OVP Mode	00
V.Cent	Adj	Aspect R	00
HWB Red	Adj	Start Freq	00
HWB Green	Adj	Y/C Input	00
HWB Blue	Adj	PAL/NTSC	00
Peaking	8	Xtal PLL	00
Bright	32	Y Delay	07
Colour	32	RGB Blk	00
Picture	37	Noise Cor	00
AGC Set	00	Fast Blk	01
Srce Sel 1	00	AFC Wind	00
Srce Sel 2	00	IF Sensty	00
Time Con	03	Mod Std	00
Xtal Ind	03	Vid Mute	01
FF Freq	02		

TDA6612	INIT VALUE	TDA6612	INIT VALUE
MPX Per	00	Mute 2	01
Quasi St	00	C1/2LS	00
Bass Exp	00	C1/2KH	00
H Pulse	00	Mono	01
Matrix St	00	Scart	00
Bypass	00	Scart D	00
Vol L Sp	07	AM	00
Vol R Sp	07	SAA7283	INIT VALUE
Vol HP	00	Mon M1/M2	01
Pll Sync	00	DM Select	01
Mute 3	01	SSWIT 123	07
Treble	08	Port 2	00
Bass	09	Mute Def	00
X Talk Adj	Adj	AMDIS	00
Mute 1	00	E Max	80
		E Min	01

4-2. TEST MODE 2 :

Is available by pressing Test button twice, OSD 'TT ' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max.
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	"Menu" Flag request
10	Tenth entry is deleted
11	dummy
12	dummy
13	dummy
14	Forced AV 16:9 detection on/off
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Label for AV Sources
18	RGB Priority on/off
19	Clear all preset labels
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24	Set destination = U RGB Priority = Off
25	Set destination = D RGB Priority = Off
26	Set destination = B RGB Priority = On
27	Set destination = K RGB Priority = Off
28	Set destination = L RGB Priority = Off
29	Set destination = E RGB Priority = Off
30	Tenth entry is deleted
31	Set Destination = A RGB Priority = On
32	dummy
33	Auto AGC
34	N/S Pin Adjust
35	Manual AGC Adjust
36	dummy
37	dummy
38	To Activate Rotation Coil Adjustment
39	'Check Rotation Coil Adjustment
40	Tenth entry is deleted
41	Re-initialise NVM
42	Production use only
43	Initialise Geom Settings
44	Initialise all favorite pages = 100
45	Channel locks = off
46	IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter (Ver 2 and above software only)
47	dummy
48	Set NVM testbyte to 44h
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by µ-Controller.

In Test Mode the Menu display is switchable by the Speaker-Off button.

Note : For Test Modes 41 - 49 it is necessary to ensure that the TV is set to Prog 59.

SUB BRIGHTNESS ADJUSTMENT

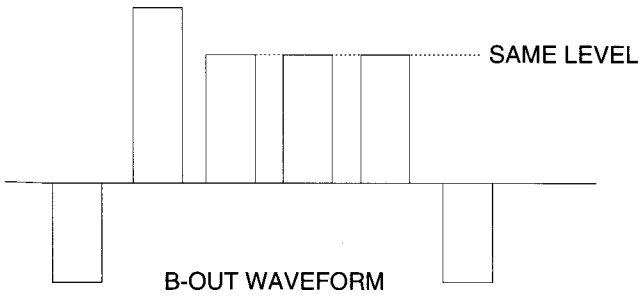
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin ① of CN703 (R OUT) and adjust HWB Red data of TDA8366 1 to obtain 2.3Vp-p.

SUB COLOUR ADJUSTMENT

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to pin ③ of CN703 (B OUT) on the C Board.
3. Enter into service mode and press 22.
4. Adjust data so that the right sides of the waveform are set to the same level.



STEREO SEPARATION ADJUSTMENT

1. Input a 1KHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and select the "Test Menu" to be TDA6612.
3. Select the Stereo Xtalk Adjustment Menu, by using the Red (Next) and Green (Previous) buttons.
4. Monitor the Scart 1 L-channel output and adjust the data so that the R-channel sound is not detected in the L-channel.

I.F. COIL ADJUSTMENT

1. Apply a 38.9MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negative modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

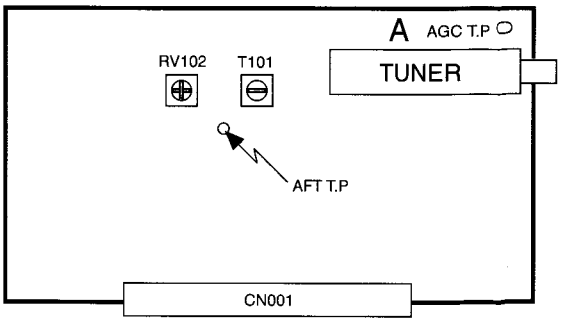
L, BAND 1 ADJUSTMENT (RV102) - L, STANDARD FOR FRENCH MODELS.

1. Apply a 33.95MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for positive modulation and system L band 1.
3. Measure the voltage at the AFT test point and adjust (RV102) to obtain 2.4V +/- 0.2V.

Note : Only adjust RV102 after T101 has been correctly adjusted.

AGC ADJUSTMENT

1. Receive an off- air signal.
2. Enter the service mode, ("Test" "Test") and 35.
3. Adjust the data so that there is no snow or cross - modulation visible on the screen.
4. Change the receiving off-air channel, and confirm the above status.



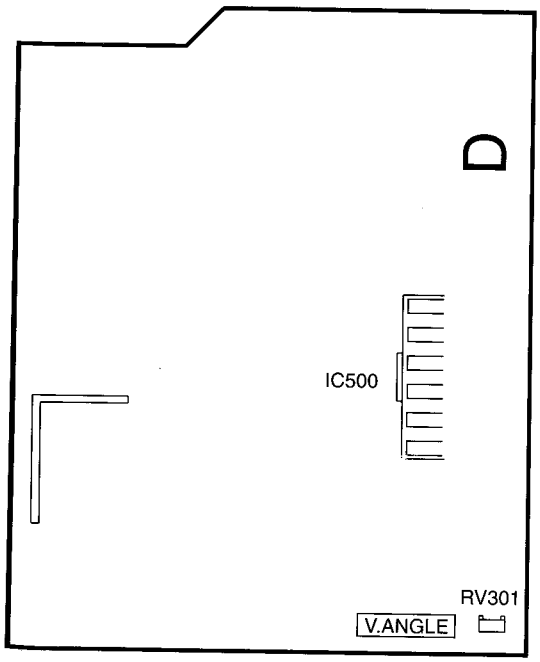
- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

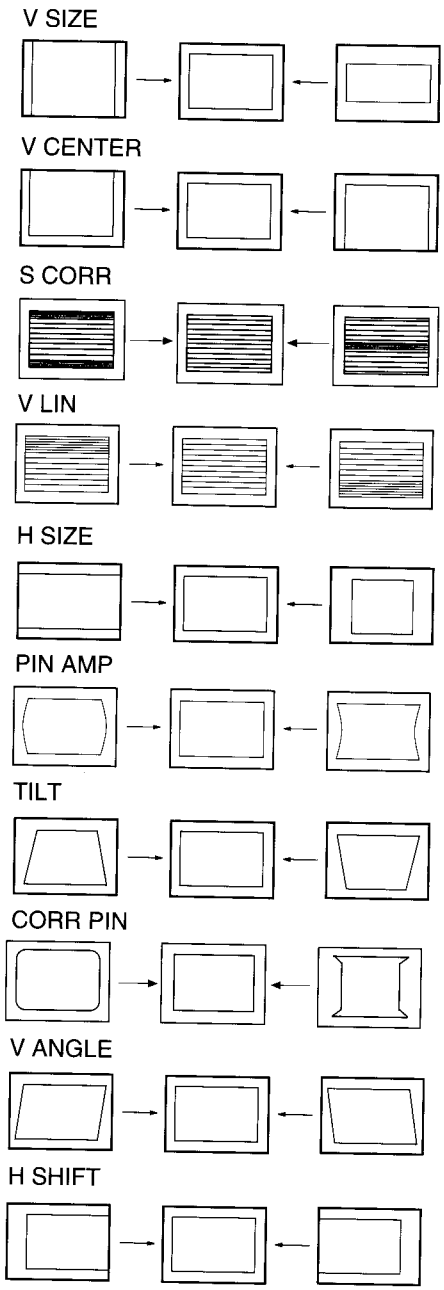
1. Enter into service mode.
2. Select and adjust each item in order to obtain the optimum image.

Item No	Adjustment item.	Data Amount
03	H SHIFT	ADJ.
04	H SIZE	ADJ.
05	PIN AMP	ADJ.
06	CORR PIN	ADJ.
07	TILT	ADJ.
08	V LINEAR	ADJ.
09	V SIZE	ADJ.
0A	S CORR	ADJ.
0B	V CENTER	ADJ.

Note : V ANGLE is adjusted by a Variable Resistor on the 'D' Board (RV301)



- D Board Component Side -



4-3. BE-3B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3B chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failiure to respond to IIC. In the event of one of these situations arrising the software will first try to release the bus if busy (Failiure to do so will report with continous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1., on fatal errors are reported with this method.

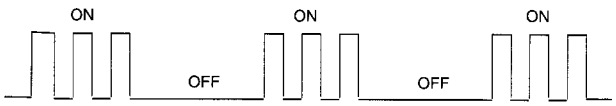
If a fatal error is found the set will simply stay in whichever state it was when the error occured, but if a non fatal error occurs the set will try to continue operation.

Table 1

Device	LED Error Count	Fatal Error
NVM	2 .. 9	√
Teletext	10	
Jungle	11	√
Video_sw	12	
Tuner	13	√
Nicam	14	
Audio_cont	15	√

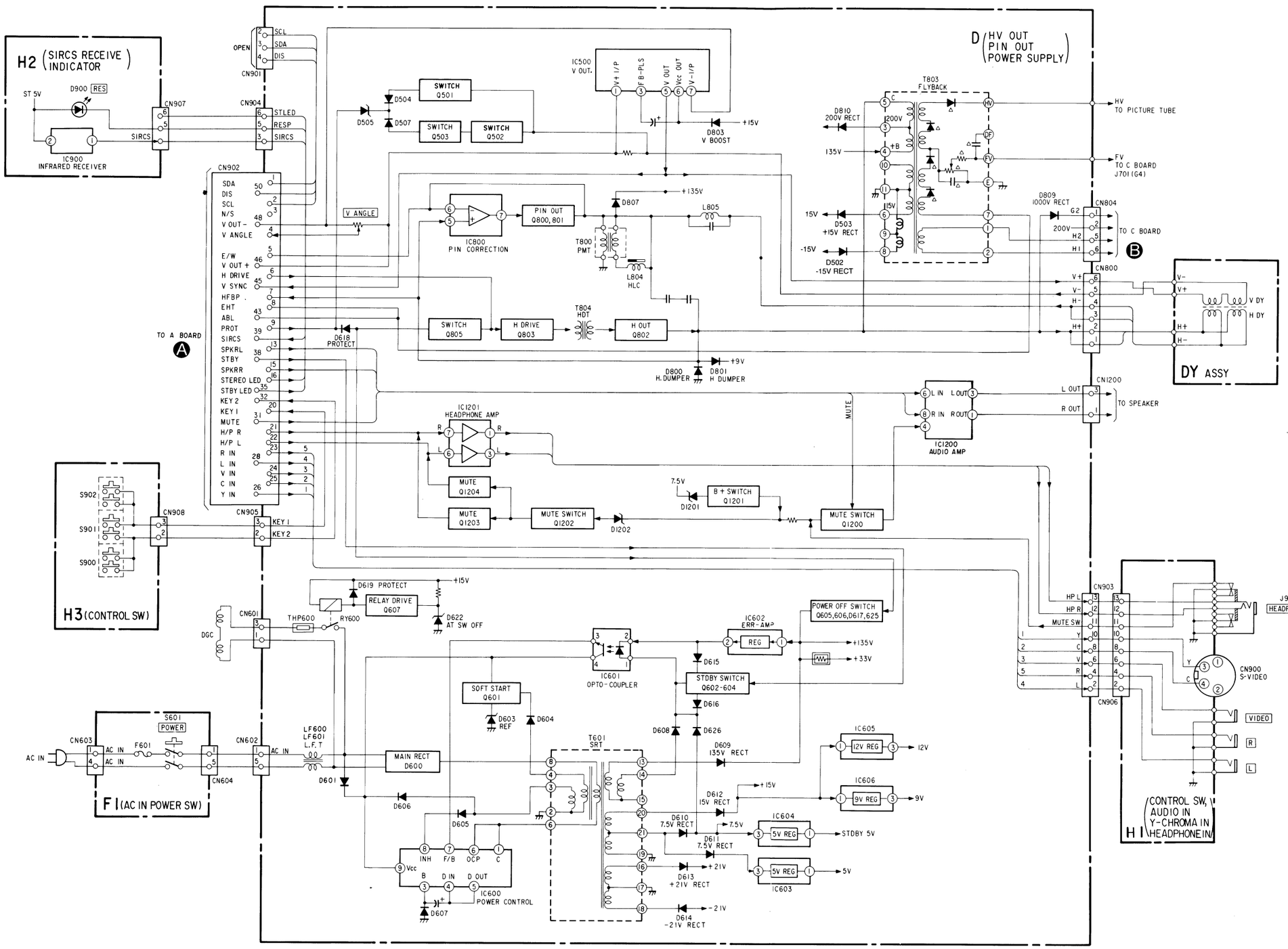
Flash Timing Example : e.g. error number 3.

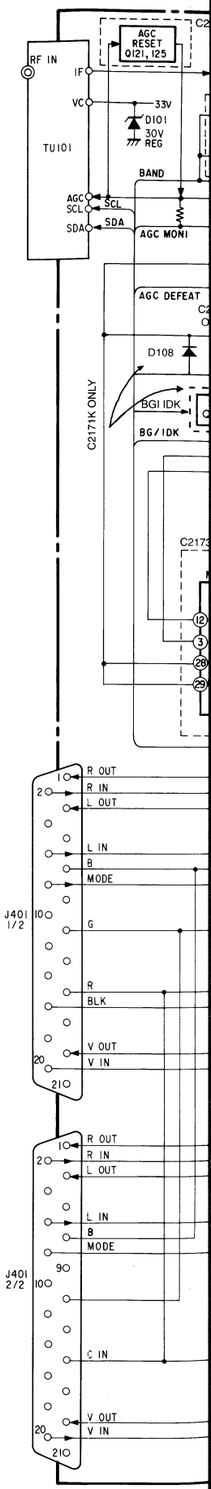
Stby LED

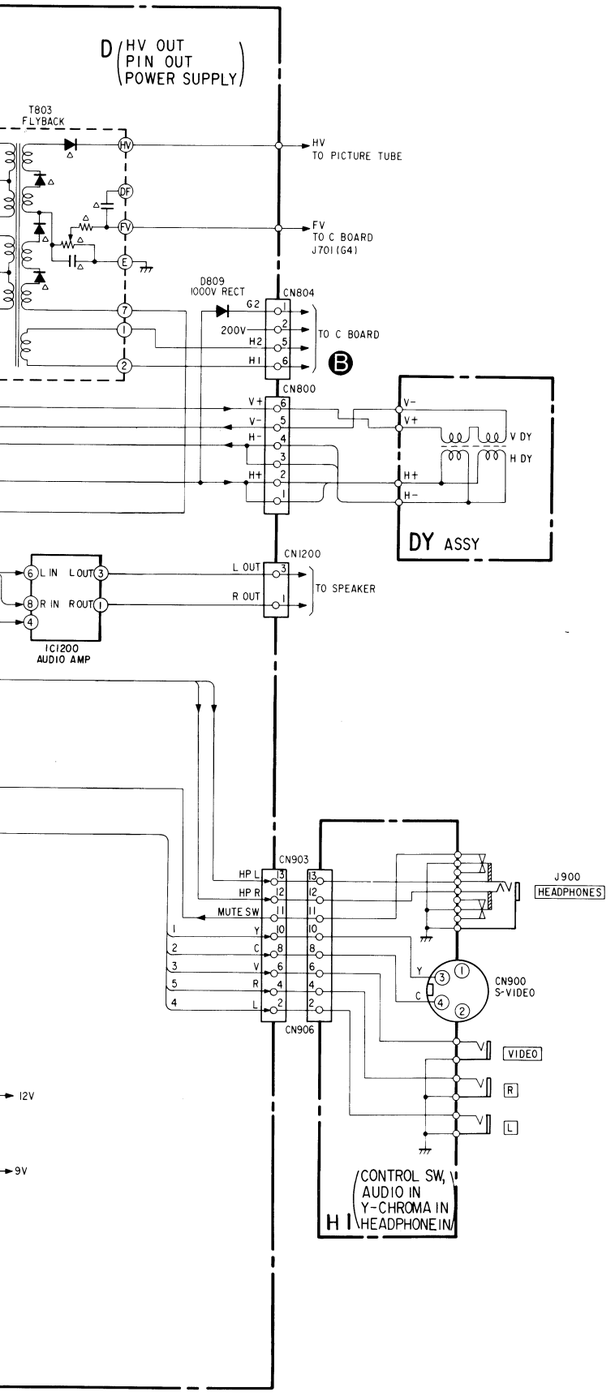


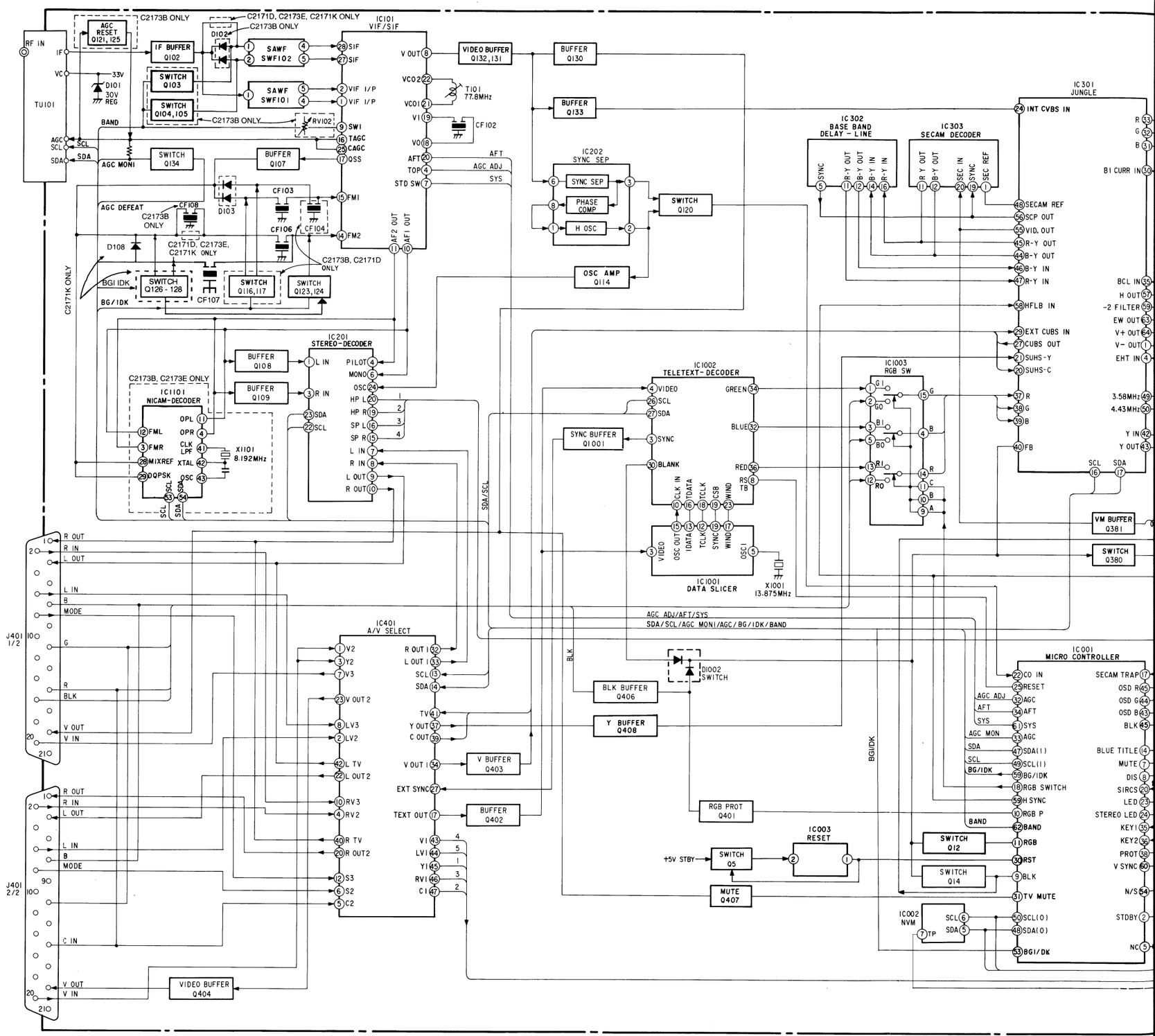
SECTION 5
DIAGRAMS

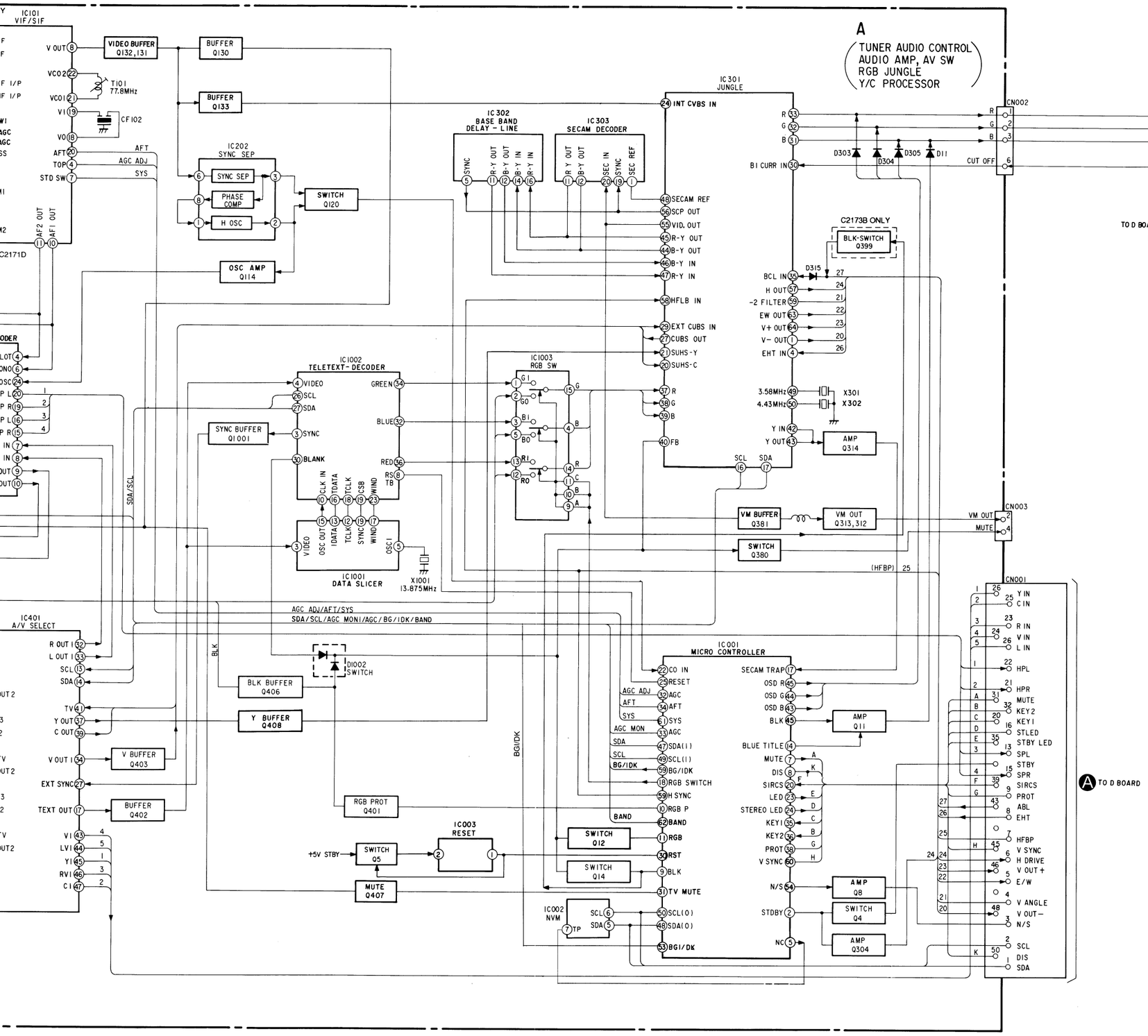
5-1. BLOCK DIAGRAM



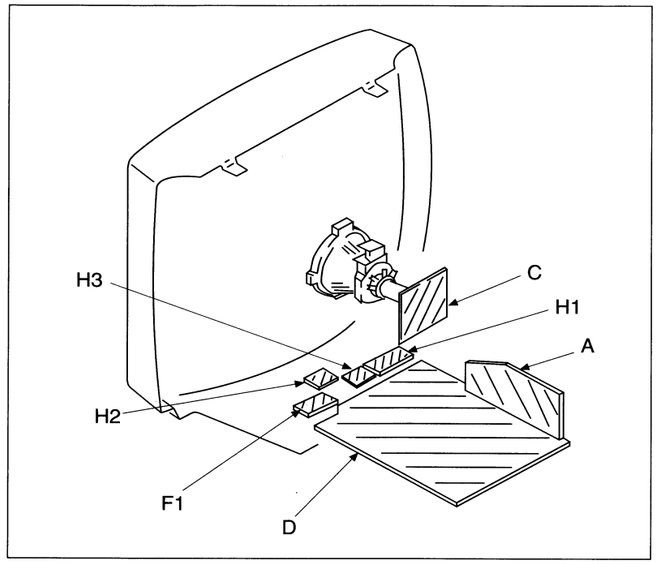



D (HV OUT PIN OUT POWER SUPPLY)
T803 FLYBACK
HV TO PICTURE TUBE
FV TO C BOARD J701(G4)
D809 1000V RECT
CN804
G2
200V
H2
H1
TO C BOARD
B
CN800
V+
V-
H-
H+
V-
V+
H+
H-
V DY
H DY
DY ASSY
CN1200
L IN
R IN
L OUT
R OUT
TO SPEAKER
IC1200 AUDIO AMP
12V
9V
CN903
HP L
HP R
MUTE SW
Y
C
V
R
L
CN906
J900 HEADPHONES
CN900 S-VIDEO
VIDEO
R
L
CONTROL SW, AUDIO IN Y-CHROMA IN HEADPHONE IN


RF IN
TU101
AGC RESET Q121, 125
C2173B ONLY
C2171D, C2173E, C2171K ONLY
C2173B ONLY
IC101 VIF/SIF
IF BUFFER Q102
SWITCH Q103
SWITCH Q104,105
SAWF SWF102
SAWF SWF101
33V D101 30V REG
BAND
AGC MONI
SWITCH Q134
BUFFER Q107
C2173B ONLY
RV102
CF103
D103
AGC DEFEAT
CF108
C2173B ONLY
C2171D, C2173E, C2171K ONLY
CF106
CF104
D108
C2173B, C2171D ONLY
C2171K ONLY
BGI IDK
BG/IDK
SWITCH Q126 - 128
CF107
SWITCH Q116,117
SWITCH Q123,124
SIF
SIF
VIF I/P
VIF I/P
SWI
TAGC
CAGC
OSS
FMI
FM2
AF2 OUT
AF1 OUT
V OUT
VCO2
VCO1
VI
VO
AFT
TOP
STD SW
T101 77.8MHz
CF102
AFT
AGC ADJ
SYS
VIDEO BUFFER Q132,131
BUFFER Q130
BUFFER Q133
IC202 SYNC SEP
SYNC SEP
PHASE COMP
H OSC
SWITCH Q120
OSC AMP Q114
IC201 STEREO-DECODER
BUFFER Q108
BUFFER Q109
L IN
R IN
SDA
SCL
PILOT
MONO
OSC
HP L
HP R
SP L
SP R
L IN
R IN
L OUT
R OUT
C2173B, C2173E ONLY
IC1101 NICAM-DECODER
OPL
OPR
FML
FMR
CLK LPF
MIXREF
XTAL
DQPSK
OSC
SCL
SDA
X1101 8.192MHz
SDA/SCL
IC1002 TELETEXT-DECODER
VIDEO
SCL
SDA
SYNC
BLANK
GREEN
BLUE
RED
RS TB
CLK IN
TDATA
TCLK
CSB
WIND
SYNC BUFFER Q1001
IC1003 RGB SW
G1
G0
B1
B0
R1
R0
G
B
R
FB
IC1001 DATA SLICER
VIDEO
OSC OUT
IDATA
TCLK
SYNC
WIND
OSC I
X1001 13.875MHz
IC301 JUNGLE
INT CVBS IN
IC302 BASE BAND DELAY - LINE
IC303 SECAM DECODER
SYNC
R-Y OUT
B-Y OUT
B-Y IN
R-Y IN
SEC IN
SYNC
SEC REF
SECAM REF
SCP OUT
VID. OUT
R-Y OUT
B-Y OUT
B-Y IN
R-Y IN
HFLB IN
EXT CVBS IN
CVBS OUT
SUHS-Y
SUHS-C
R
G
B
FB
SCL
SDA
BCL IN
H OUT
-2 FILTER
EW OUT
V+ OUT
V- OUT
EHT IN
3.58MHz
4.43MHz
Y IN
Y OUT
B1 CURR IN
VM BUFFER Q381
SWITCH Q380
J401 1/2
J401 2/2
R OUT
R IN
L OUT
L IN
B
MODE
G
R
BLK
V OUT
V IN
C IN
IC401 A/V SELECT
V2
Y2
V3
V OUT 2
LV3
LV2
L TV
L OUT 2
RV3
RV2
R TV
R OUT 2
S3
S2
C2
R OUT I
L OUT I
SCL
SDA
TV
Y OUT
C OUT
V OUT I
EXT SYNC
TEXT OUT
VI
LVI
YI
RVI
CI
V BUFFER Q403
BUFFER Q402
VIDEO BUFFER Q404
AGC ADJ/AFT/SYS
SDA/SCL/AGC MONI/AGC/BG/IDK/BAND
BLK
D1002 SWITCH
BLK BUFFER Q406
Y BUFFER Q408
RGB PROT Q401
BGI/DK
IC003 RESET
+5V STBY
SWITCH Q5
MUTE Q407
SWITCH Q12
SWITCH Q14
IC001 MICRO CONTROLLER
CO IN
RESET
AGC
AFT
SYS
AGC MON
SDA
SCL
BG/IDK
RGB SWITCH
H SYNC
RGB P
BAND
RGB
RST
BLK
TV MUTE
SCL(O)
SDA(O)
BGI/DK
SECAM TRAP
OSD R
OSD G
OSD B
BLK
BLUE TITLE
MUTE
DIS
SIRCS
LED
STEREO LED
KEY1
KEY2
PROT
V SYNC
N/S
STDBY
NC
IC002 NVM
TP


A
(TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE
Y/C PROCESSOR
IC101
VIF/SIF
V OUT 8
VIDEO BUFFER Q132,131
BUFFER Q130
BUFFER Q133
VCO2 22
VCO1 21
T101 77.8MHz
VI 19
CF102
VO 18
AFT 20
TOP 4
STD SW 7
AFT
AGC ADJ
SYS
IC202
SYNC SEP
SYNC SEP
PHASE COMP
H OSC
SWITCH Q120
OSC AMP Q114
AF2 OUT 11
AF1 OUT 10
C2171D
IC301
JUNGLE
24 INT CVBS IN
R 33
G 32
B 31
BI CURR IN 30
IC302
BASE BAND DELAY - LINE
SYNC 5
R-Y OUT 11
B-Y OUT 12
B-Y IN 14
R-Y IN 15
IC303
SECAM DECODER
R-Y OUT 11
B-Y OUT 12
SEC IN 20
SYNC 19
SEC REF 1
48 SECAM REF
56 SCP OUT
55 VID. OUT
45 R-Y OUT
44 B-Y OUT
46 B-Y IN
47 R-Y IN
58 HFLB IN
29 EXT CUBS IN
27 CUBS OUT
21 SUHS-Y
20 SUHS-C
37 R
38 G
39 B
40 FB
D303
D304
D305
D11
CUT OFF 6
CN002
R 1
G 2
B 3
6
CN703
R
G
B
CUT OFF
R BKG Q702
G BKG Q705
B BKG Q708
R OUT Q703 704
G OUT Q706,707
B OUT Q709,710
V901
PICTURE TUBE
H RCV G2 G4 HV
C2173B ONLY
BLK-SWITCH Q399
D315
BCL IN 35
H OUT 57
-2 FILTER 59
EW OUT 63
V+ OUT 64
V- OUT 1
EHT IN 4
27
24
21
22
23
20
26
3.58MHz 49
4.43MHz 50
X301
X302
Y IN 42
Y OUT 43
AMP Q314
SCL 16
SDA 17
TO D BOARD
B
CN701
5 H1
6 H2
D711 PROTECT
RV702 H STAT
RV701 SCRREN
G2(1000V)
RCV
G2
FV
C (RGB OUT)
TO D BOARD T803 (FBT)
IC1002
TELETEXT-DECODER
4 VIDEO
26 SCL
27 SDA
3 SYNC
30 BLANK
GREEN 34
BLUE 32
RED 36
RS 8 TB
10 CLK IN
16 TDATA
18 TCLK
19 CSB
23 WIND
15 VIDEO
13 OSC OUT
12 IDATA
19 SYNC
17 WIND
5 OSCI
X1001
13.875MHz
IC1001
DATA SLICER
SYNC BUFFER Q1001
IC1003
RGB SW
G1 1
G0 2
B1 3
B0 5
R1 13
R0 12
15 G
4 B
14 R
11 C
10 B
9 A
VM BUFFER Q381
VM OUT Q313,312
SWITCH Q380
VM OUT
MUTE
CN003
(HFBP) 25
CN001
SDA/SCL
AGC ADJ/AFT/SYS
SDA/SCL/AGC MONI/AGC/BG/IDK/BAND
IC401
A/V SELECT
R OUT I 32
L OUT I 33
SCL 13
SDA 14
TV 41
Y OUT 37
C OUT 39
V OUT I 34
EXT SYNC 27
TEXT OUT 17
VI 43
LVI 44
YI 45
RVI 46
CI 47
V BUFFER Q403
BUFFER Q402
BLK
BLK BUFFER Q406
Y BUFFER Q408
D1002
SWITCH
RGB PROT Q401
+5V STBY
SWITCH Q5
MUTE Q407
IC003
RESET
IC001
MICRO CONTROLLER
22 CO IN
25 RESET
AGC ADJ 32 AGC
AFT 34 AFT
SYS 61 SYS
AGC MON 33 AGC
SDA 47 SDA(I)
SCL 49 SCL(I)
BG/IDK 59 BG/IDK
18 RGB SWITCH
59 H SYNC
10 RGB P
BAND 62 BAND
11 RGB
30 RST
9 BLK
31 TV MUTE
50 SCL(O)
48 SDA(O)
53 BGI/DK
BGI/DK
SWITCH Q12
SWITCH Q14
IC002
NVM
SCL 6
SDA 5
7 TP
SECAM TRAP 17
OSD R 45
OSD G 44
OSD B 43
BLK 45
AMP Q11
BLUE TITLE 14
MUTE 7
DIS 8
SIRCS 20
LED 23
STEREO LED 24
KEY1 35
KEY2 36
PROT 38
V SYNC 60
N/S 54
STDBY 2
NC 5
AMP Q8
SWITCH Q4
AMP Q304
CN001
26 Y IN
25 C IN
23 R IN
24 V IN
26 L IN
22 HPL
21 HPR
31 MUTE
32 KEY2
20 KEY1
16 STLED
35 STBY LED
13 SPL
15 SPR
39 SIRCS
9 PROT
43 ABL
8 EHT
7 HFBP
45 V SYNC
6 H DRIVE
46 V OUT +
5 E/W
4 V ANGLE
48 V OUT −
3 N/S
2 SCL
50 DIS
1 SDA
A TO D BOARD

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  k = 1000 , M = 1000K
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power ¼ W

- : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth - ground.
- ⏚ : earth - chassis.
- ⧺ : no mounted.

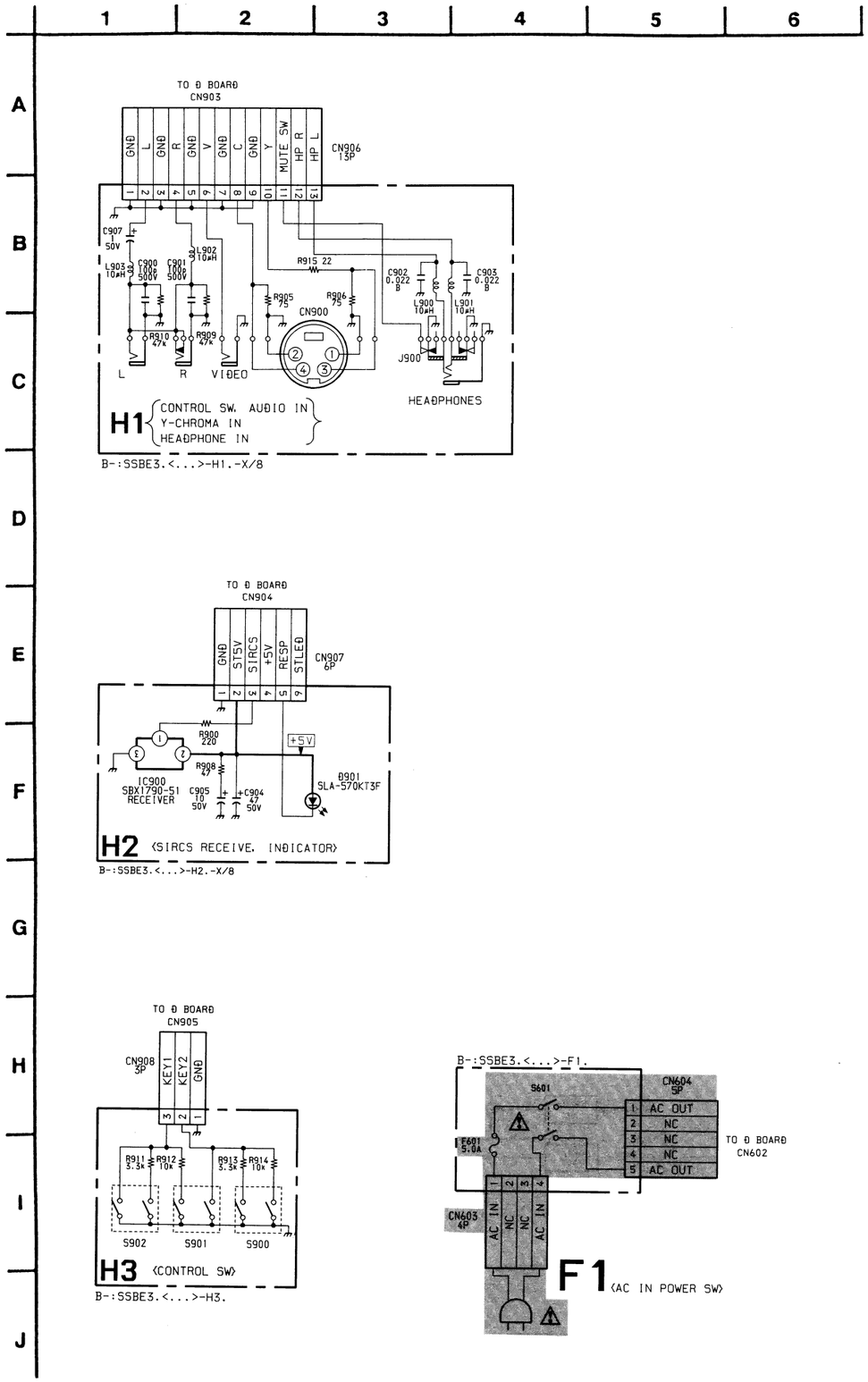
Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part number specified.

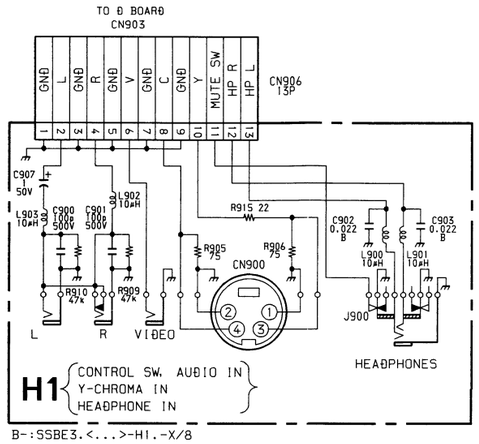
Note : Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

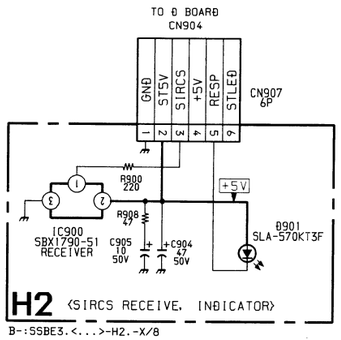
Reference information

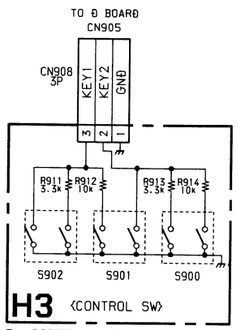
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

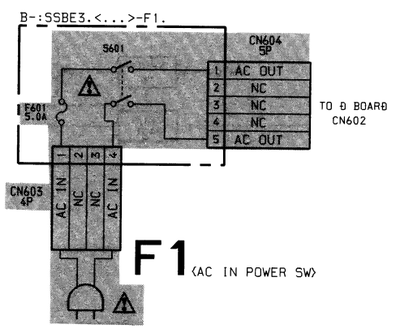
- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- ——— : B+ bus.
- ⟿ : signal path. (RF)





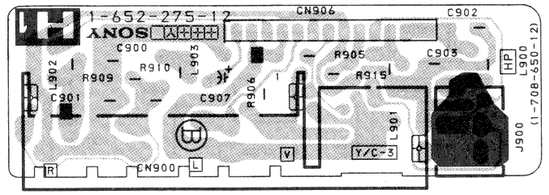




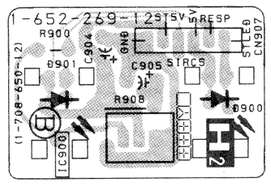


H1 [CONTROL SW, AUDIO IN / Y-CHROMA IN, HEADPHONE IN] **H2** [SIRCS RECEIVE INDICATOR] **H3** [CONTROL SW] **F1** [AC IN POWER SW] **D** [HV OUT / PIN OUT / POWER SUPPLY]

— H1 BOARD —

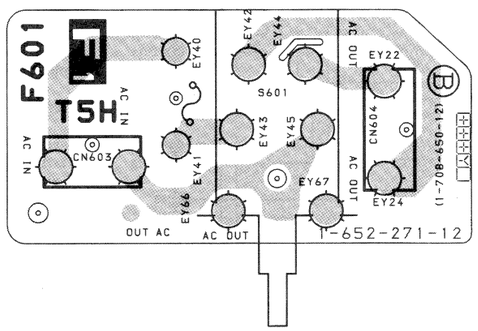


— H2 BOARD —

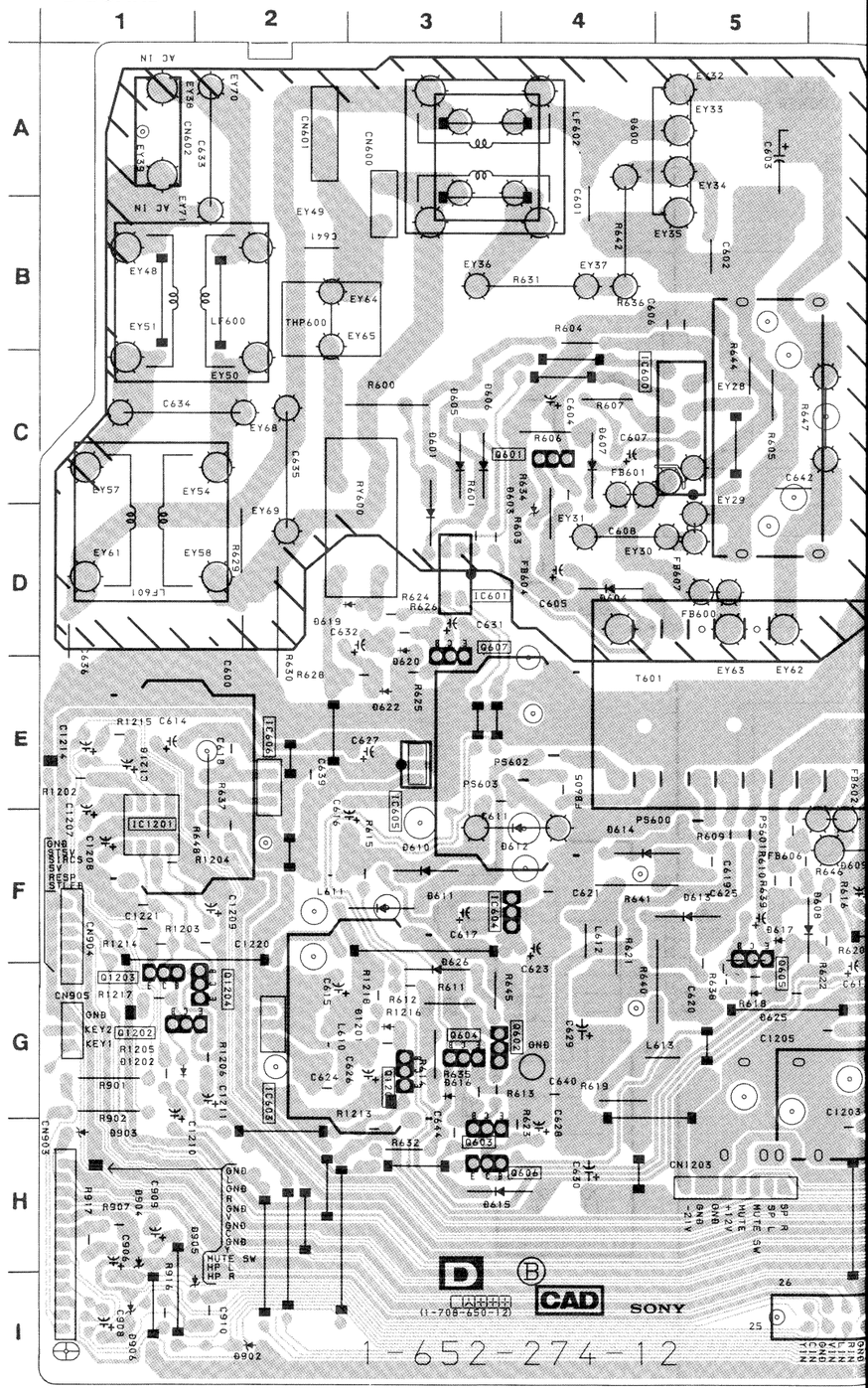


— H3 BOARD —

— F1 BOARD —



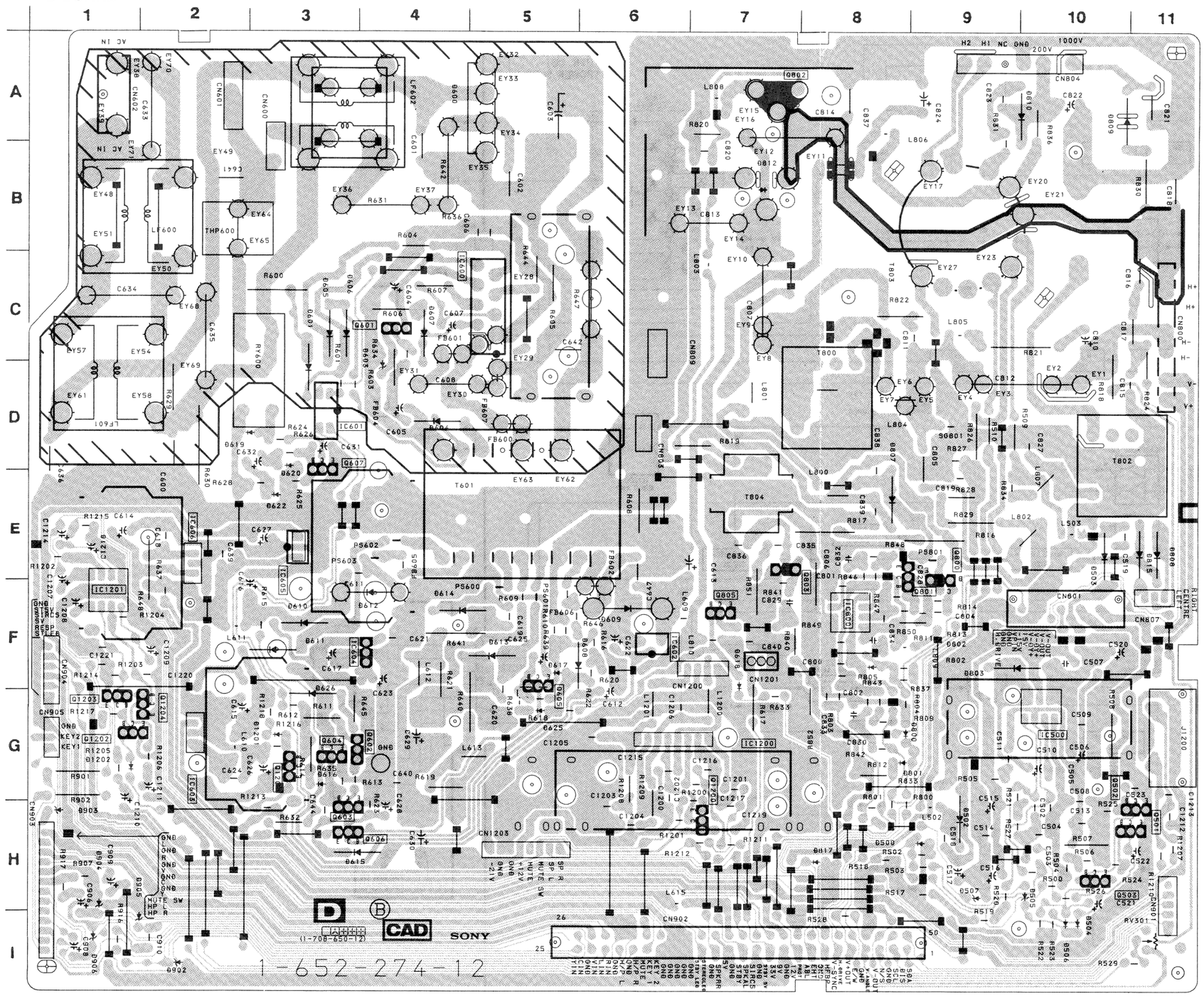
— D BOARD —



H2 [SIRCS RECEIVE INDICATOR] **H3** [CONTROL SW] **F1** [AC IN POWER SW] **D** [HV OUT PIN OUT POWER SUPPLY]

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD —



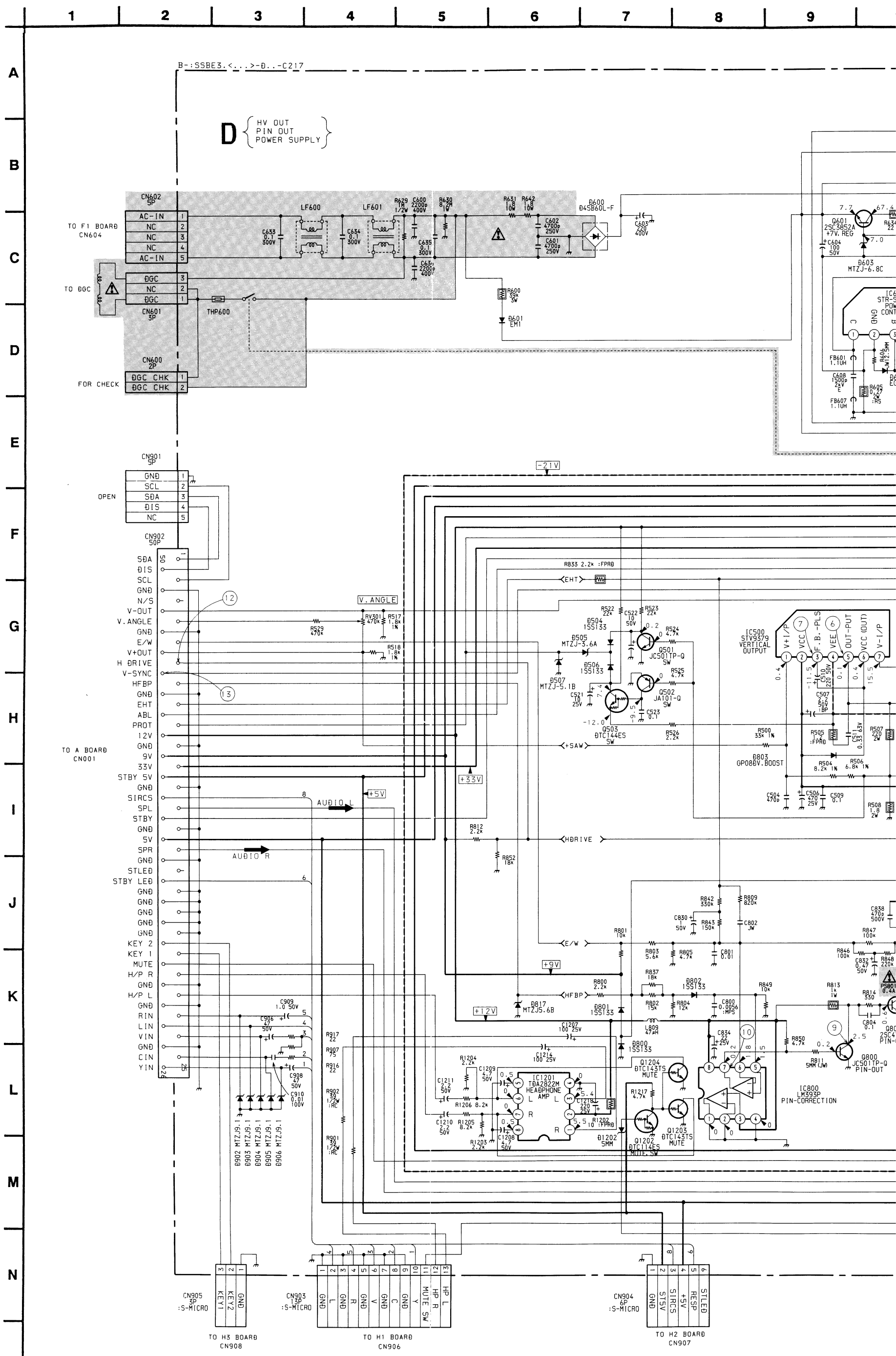
D BOARD

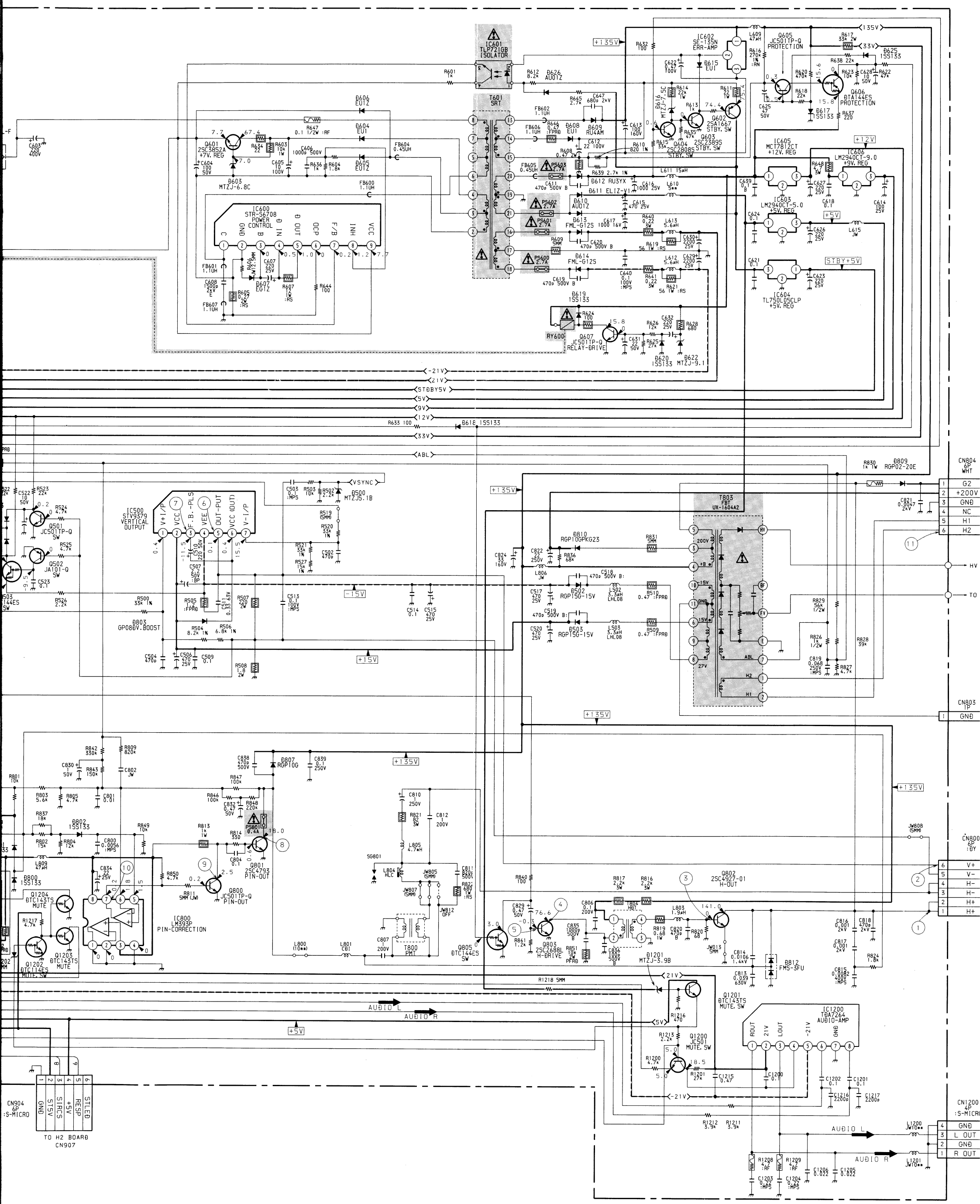
IC	
IC500	G-10
IC600	C-5
IC601	D-3
IC602	F-6
IC603	G-2
IC604	F-4
IC605	E-3
IC606	E-2
IC800	F-8
IC1200	G-7
IC1201	F-1

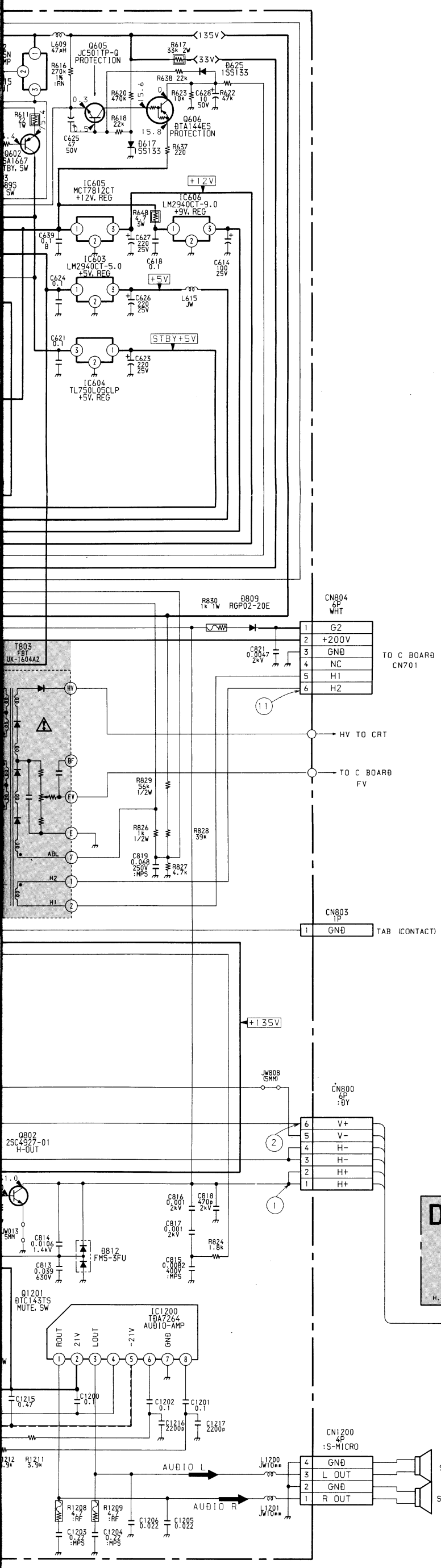
TRANSISTOR	
Q501	H-11
Q502	G-11
Q503	H-11
Q601	C-4
Q602	G-4
Q603	H-3
Q604	G-3
Q605	G-5
Q606	H-4
Q607	D-3
Q800	E-9
Q801	F-9
Q802	A-7
Q803	F-8
Q805	F-7
Q1200	H-7
Q1201	G-3
Q1202	G-1
Q1203	G-1
Q1204	G-2

DIODE	
D500	H-8
D502	H-9
D503	E-10
D504	I-10
D505	H-10
D506	I-10
D507	H-9
D600	A-4
D601	C-3
D603	D-4
D604	D-4
D605	C-3
D606	C-3
D607	C-4
D608	F-6
D609	F-6
D610	F-3
D611	F-3
D612	F-4
D613	F-5
D614	F-4
D615	H-3
D616	G-3
D617	F-5
D618	F-7
D619	D-2
D620	E-3
D622	E-3
D625	G-5
D626	G-3
D800	G-9
D801	G-9
D802	F-9
D803	F-9
D807	D-8
D809	A-10
D810	A-10
D812	B-7
D817	H-8
D902	I-2
D903	H-1
D904	H-1
D905	H-2
D906	I-1
D1201	G-3

VARIABLE RESISTOR	
RV301	I-11


B-:SSBE3.<...>-D..-C217
D { HV OUT / PIN OUT / POWER SUPPLY }
CN602 5P
AC-IN
NC
NC
NC
AC-IN
TO F1 BOARD CN604
TO DGC
DGC
NC
DGC
CN601 3P
CN600 2P
DGC CHK
DGC CHK
FOR CHECK
THP600
LF600
LF601
C633 0.1 300V
C634 0.1 300V
C635 0.1 300V
C636 2200p 400V
C600 2200p 400V
R629 1M 1/2W
R630 8.2M 1/2W
R631 1.8 10W
R642 1.8 10W
D600 D4SB60L-F
C603 220 400V
C602 4700p 250V
C601 4700p 250V
R600 39Ω 5W
D601 EM1
CN901 5P
GND
SCL
SDA
DIS
NC
OPEN
CN902 50P
SDA
DIS
SCL
GND
N/S
V-OUT
V.ANGLE
GND
E/W
V+OUT
H DRIVE
V-SYNC
HFBP
GND
EHT
ABL
PROT
12V
GND
9V
33V
STBY 5V
GND
SIRCS
SPL
STBY
GND
5V
SPR
GND
STLED
STBY LED
GND
GND
GND
GND
GND
KEY 2
KEY 1
MUTE
H/P R
GND
H/P L
GND
RIN
LIN
VIN
GND
CIN
YIN
TO A BOARD CN001
V.ANGLE
RV301 470k
R517 1.8k 1%
R529 470k
R518 1.8k 1%
AUDIO L
AUDIO R
+5V
+33V
-21V
EHT
+SAW
HDRIVE
E/W
+9V
+12V
HFBP
R833 2.2k :FPRD
R522 22k
R523 22k
C522 10 50V
D504 1SS133
D505 MTZJ-3.6A
D506 1SS133
D507 MTZJ-5.1B
Q501 JC501TP-Q SW
Q502 JA101-Q SW
Q503 DTC144ES SW
R524 4.7k
R525 4.7k
R526 2.2k
C521 10 25V
C523 0.1
R812 2.2k
R852 18k
R801 10k
R803 5.6k
R805 4.7k
C801 0.01
R842 330k
R809 820k
C830 1 50V
R843 150k
C802 JW
R837 18k
R802 15k
R804 12k
D802 1SS133
D801 1SS133
D817 MTZJ5.6B
D800 1SS133
L809 47μH
C800 0.0056 :MPS
R849 10k
C1207 100 25V
C1214 100 25V
R917 22
R907 75
R916 22
R902 39 1/2W :RC
R901 39 1/2W :RC
C909 1.0 50V
C906 47 50V
C908 47 50V
C910 0.01 100V
D902 MTZJ9.1
D903 MTZJ9.1
D904 MTZJ9.1
D905 MTZJ9.1
D906 MTZJ9.1
IC1201 TDA2822M HEADPHONE AMP
R1204 2.2k
C1209 4.7 50V
C1211 2.2 50V
R1206 8.2k
C1210 2.2 50V
R1205 8.2k
C1208 4.7 50V
R1203 2.2k
C1213 220 25V
C1212 220 25V
R1202 10 :FPRD
D1202 5MM
Q1204 DTC143TS MUTE
Q1202 DTC114ES MUTE SW
Q1203 DTC143TS MUTE
R1217 4.7k
R811 5MM (1W)
C834 22 25V
R850 4.7k
R813 1k 1W
R814 330
C804 0.1
Q800 2SC4... PIN-OUT
IC800 LM393P PIN-CORRECTION
IC500 STV9379 VERTICAL OUTPUT
V+1/P
VCC
F.B.-PLS
VEE
OUT-PUT
VCC (OUT)
V-1/P
C510 220 50V
C507 2.2 50V :BP
C511 0.33 63V
R505 1.2 :FPRD
R507 220 2W
R500 35k 1%
D803 GP080V.BOOST
R504 8.2k 1%
R506 6.8k 1%
C504 470p
C506 470 25V
C509 0.1
R508 1.8 2W
Q601 2SC3852A +7V.REG
C604 100 50V
D603 MTZJ-6.8C
FB601 1.1UH
C608 1500p 2kV E
R606 5W 2.5MM
R605 0.47 2W :RS
FB607 1.1UH
C838 470p 500V
R847 100k
R846 100k
C832 0.47 50V
R848 220k
PS801 0.4A
CN905 3P :S-MICRO
KEY1
KEY2
GND
TO H3 BOARD CN908
CN903 13P :S-MICRO
GND
L
GND
R
GND
V
GND
C
GND
Y
MUTE SW
HP R
HP L
TO H1 BOARD CN906
CN904 6P :S-MICRO
GND
STBY
SIRCS
+5V RESP
STLED
TO H2 BOARD CN907

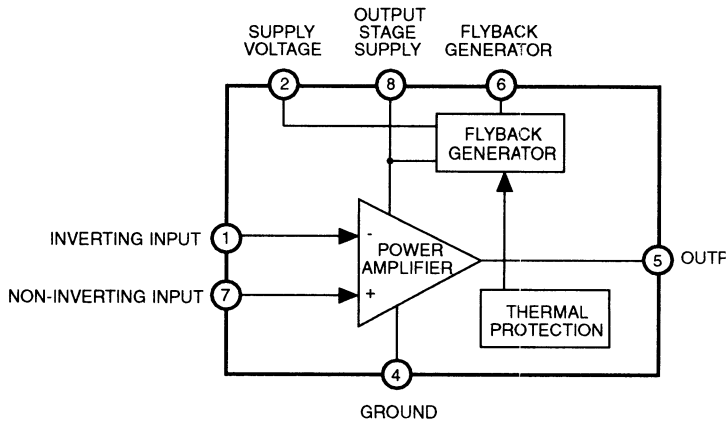

IC601 TLP721GB ISOLATOR
T601 SRT
IC602 SE-135N ERR-AMP
Q605 JC501TP-Q PROTECTION
Q606 DTA144ES PROTECTION
Q602 2SA1667 STBY. SW
Q603 2SC3895 STBY. SW
Q604 2SC2808S STBY. SW
IC605 MCT7812CT +12V. REG
IC606 LM2940CT-9.0 +9V. REG
IC603 LM2940CT-5.0 +5V. REG
IC604 TL750L05CLP +5V. REG
Q601 2SC3852A +7V. REG
Q607 JC501TP-Q RELAY-DRIVE
IC600 STR-S6708 POWER CONTROL
GND B IN B OUT OCP F/B INH VCC
IC500 STV9379 VERTICAL OUTPUT
V+I/P VCC F.B.-PLS VEE OUT-PUT VCC (OUT) V-I/P
Q501 JC501TP-Q SW
Q502 JA101-Q SW
Q503 DTA144ES SW
Q803 2SC2688L H-DRIVE
Q805 DTC144ES SW
Q800 JC501TP-Q PIN-OUT
Q801 2SC4793 PIN-OUT
Q802 2SC4927-01 H-OUT
IC800 LM393P PIN-CORRECTION
Q1204 DTC143TS MUTE
Q1203 DTC143TS MUTE
Q1202 DTC114ES MUTE. SW
Q1201 DTC143TS MUTE. SW
Q1200 JC501 MUTE. SW
IC1200 TDA7264 AUDIO-AMP
T803 FBT UX-1604A2
T800 PMT
+135V
+15V
-15V
+5V
-21V
21V
STBY+5V
5V
9V
12V
33V
ABL
VSYNC
HV
TO
AUDIO L
AUDIO R
CN804 6P WHT
CN803 1P
CN800 6P :BY
CN1200 4P :S-MICRO
CN904 6P :S-MICRO
TO H2 BOARD CN907
RY600



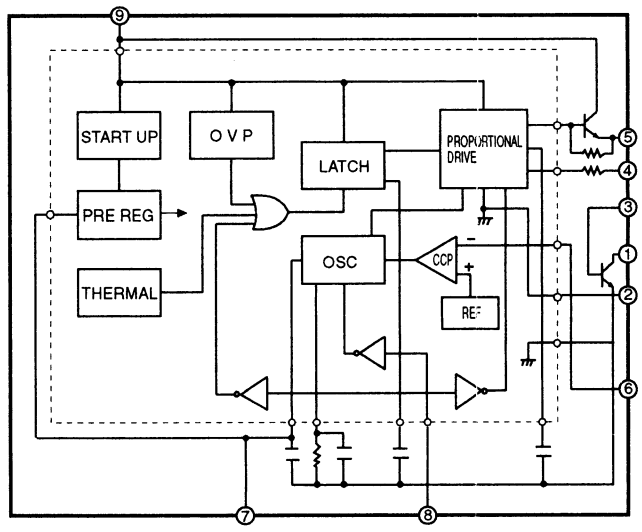
WAVEFORMS D BOARD

① 1.2K Vp-p (H)	② 56.0 Vp-p (V)	
⑤ 3.0 Vp-p (H)	⑥ 56 Vp-p (V)	
⑨ 3.9 Vp-p (H)	⑩ 1.6 Vp-p (H)	
⑬ 5.5 Vp-p (V)		

D BOARD IC500 STV9379



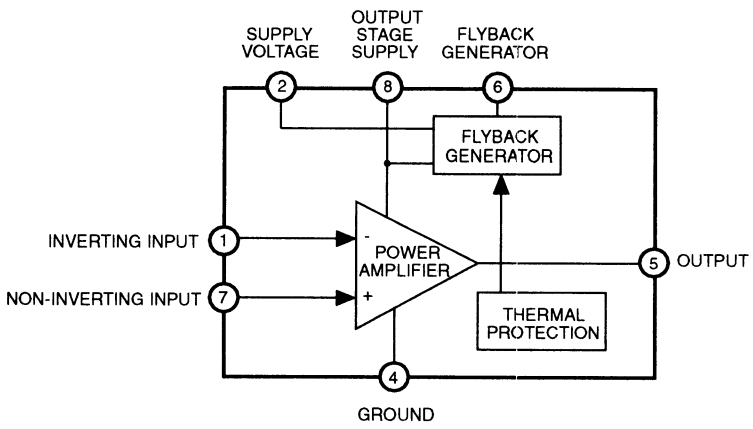
D BOARD IC600 STR-S6708



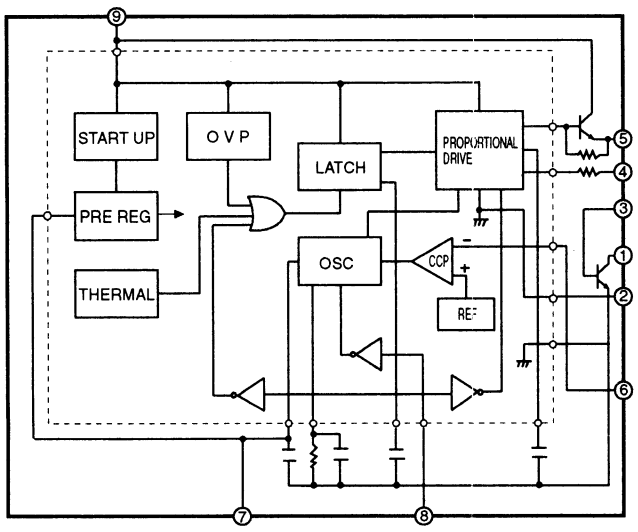
WAVEFORMS D BOARD

① 1.2K Vp-p (H)	② 56.0 Vp-p (V)	③ 11.7 Vp-p (H)	④ 181 Vp-p (H)
⑤ 3.0 Vp-p (H)	⑥ 56 Vp-p (V)	⑦ 31 Vp-p (V)	⑧ 140 Vp-p (H)
⑨ 3.9 Vp-p (H)	⑩ 1.6 Vp-p (H)	⑪ 22 Vp-p (H)	⑫ 3.5 Vp-p (H)
⑬ 5.5 Vp-p (V)			

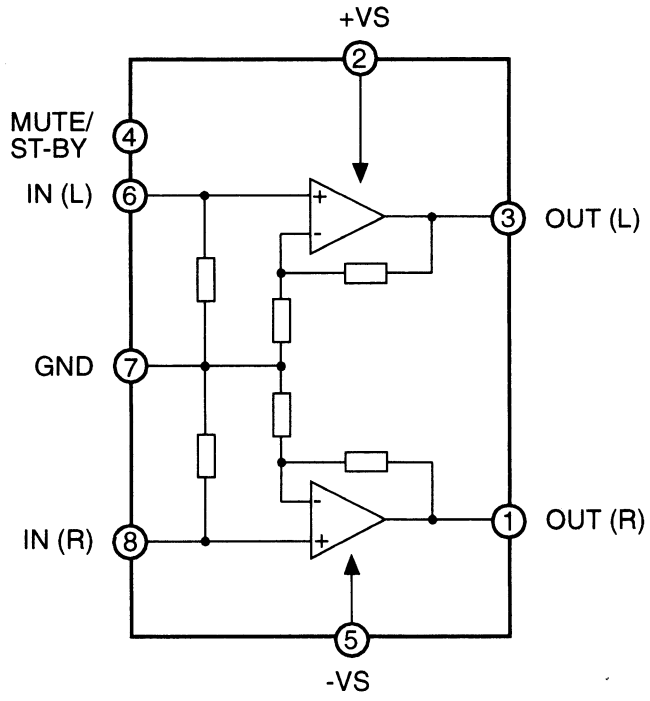
D BOARD IC500 STV9379

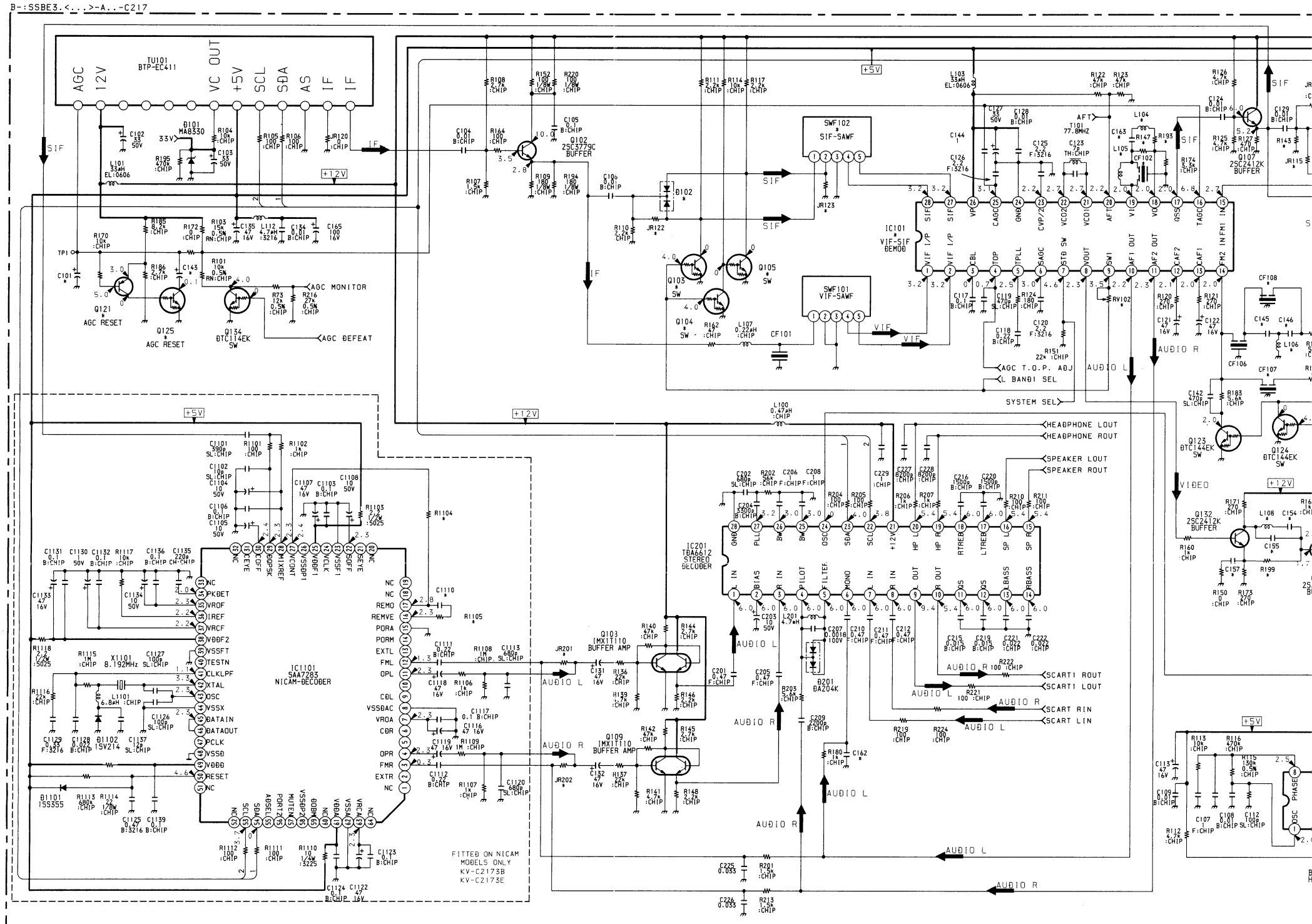


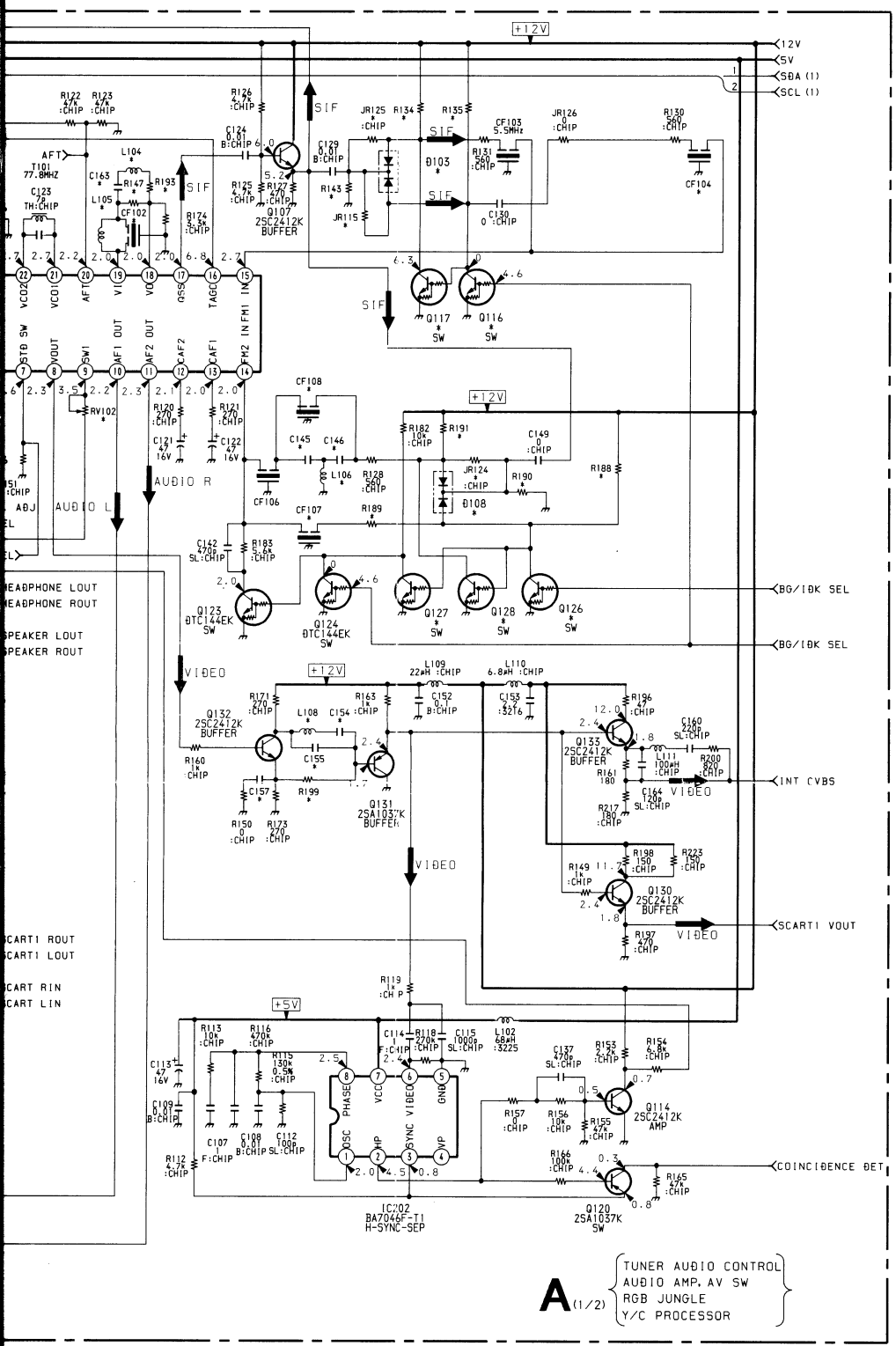
D BOARD IC600 STR-S6708



D BOARD IC1200 TDA7264




B-:SSBE3.<...>-A..-C217
TU101 BTP-EC411
AGC
12V
VC OUT
+5V
SCL
SDA
AS
IF
IF
SIF
IF
+12V
+5V
SWF102 SIF-SAWF
SWF101 VIF-SAWF
IC101 VIF-SIF DEMOD
VIF
VIF
SIF
SIF
AFT
AUDIO L
AUDIO R
AUDIO L
AUDIO R
AUDIO L
AUDIO R



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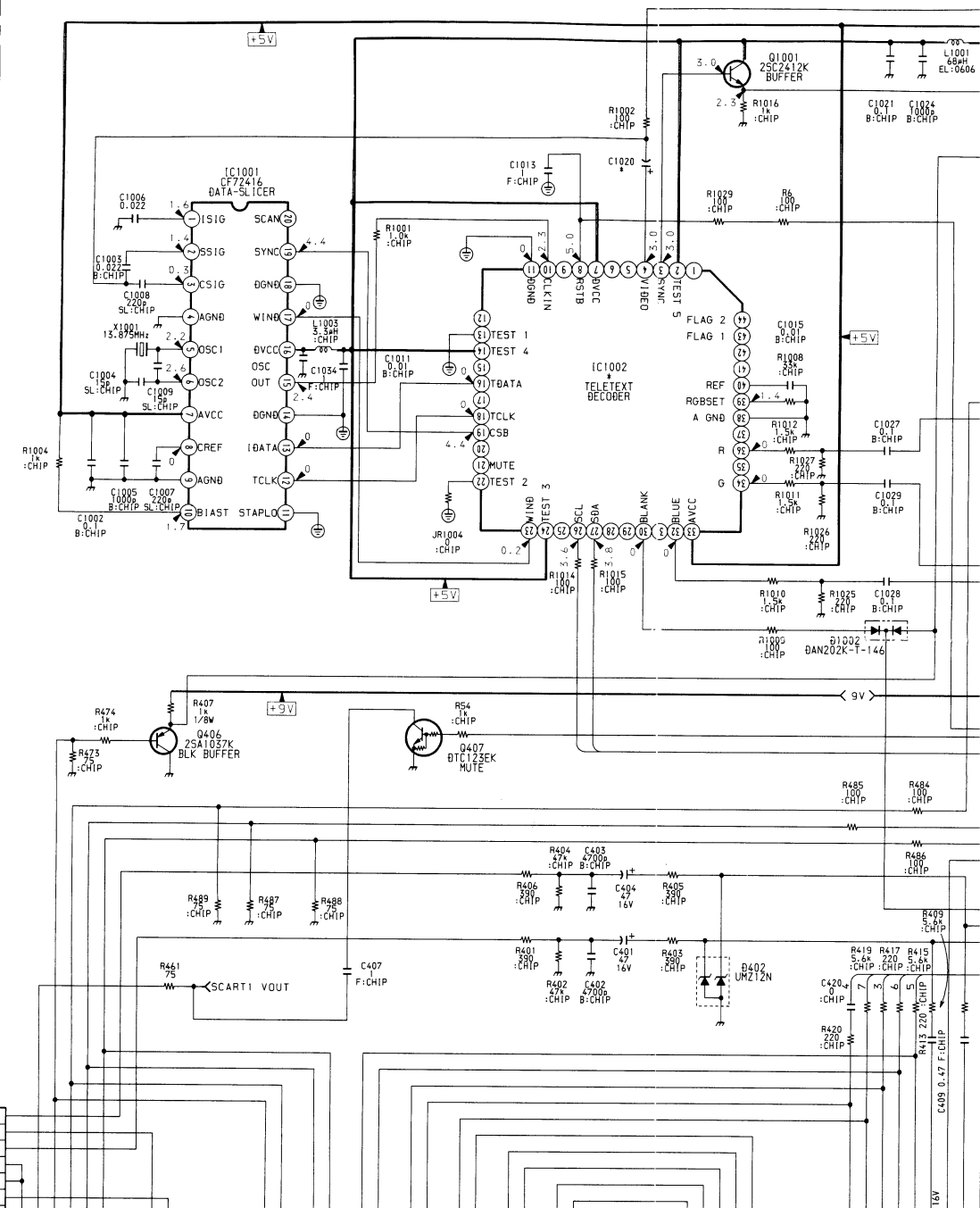
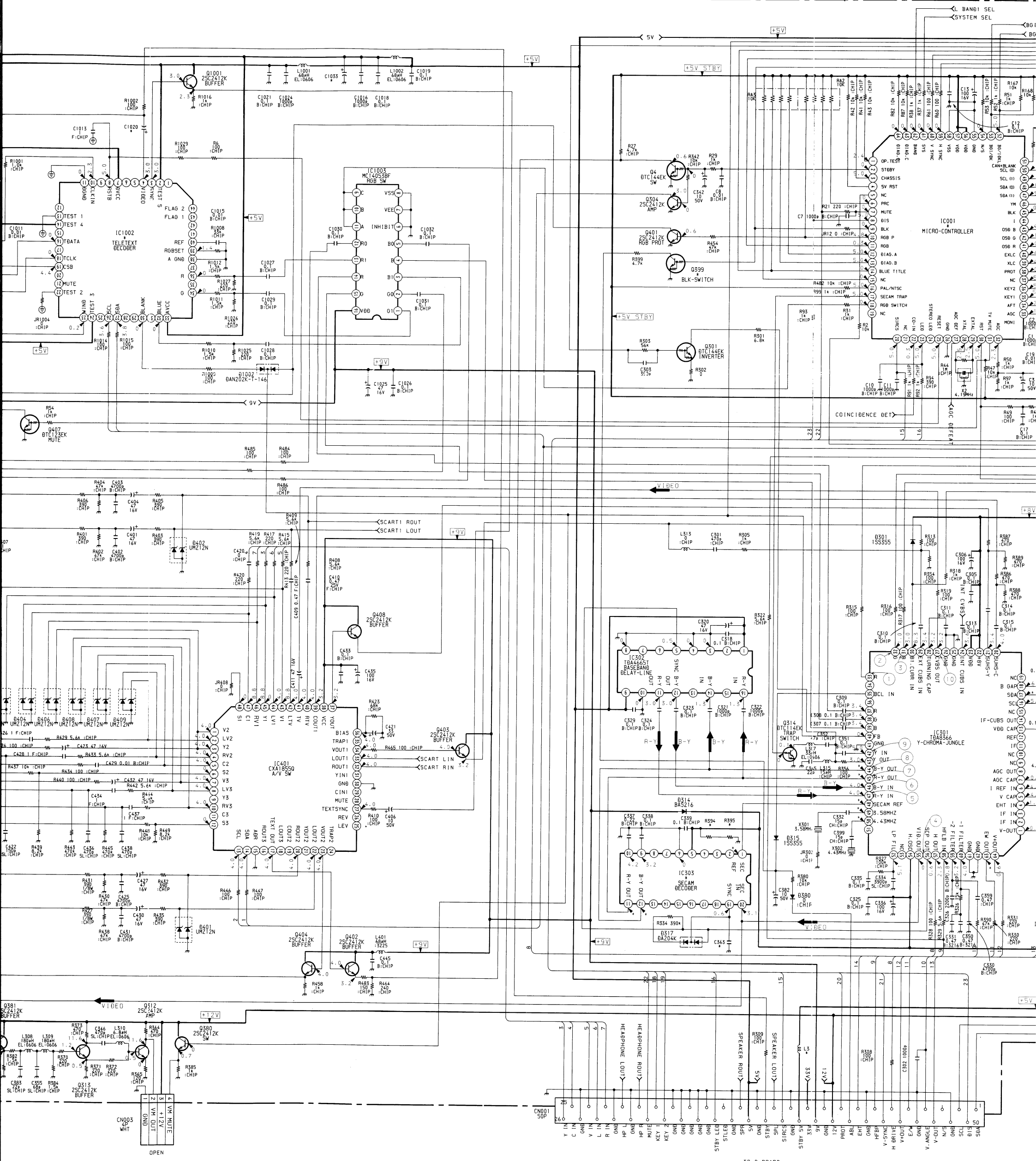
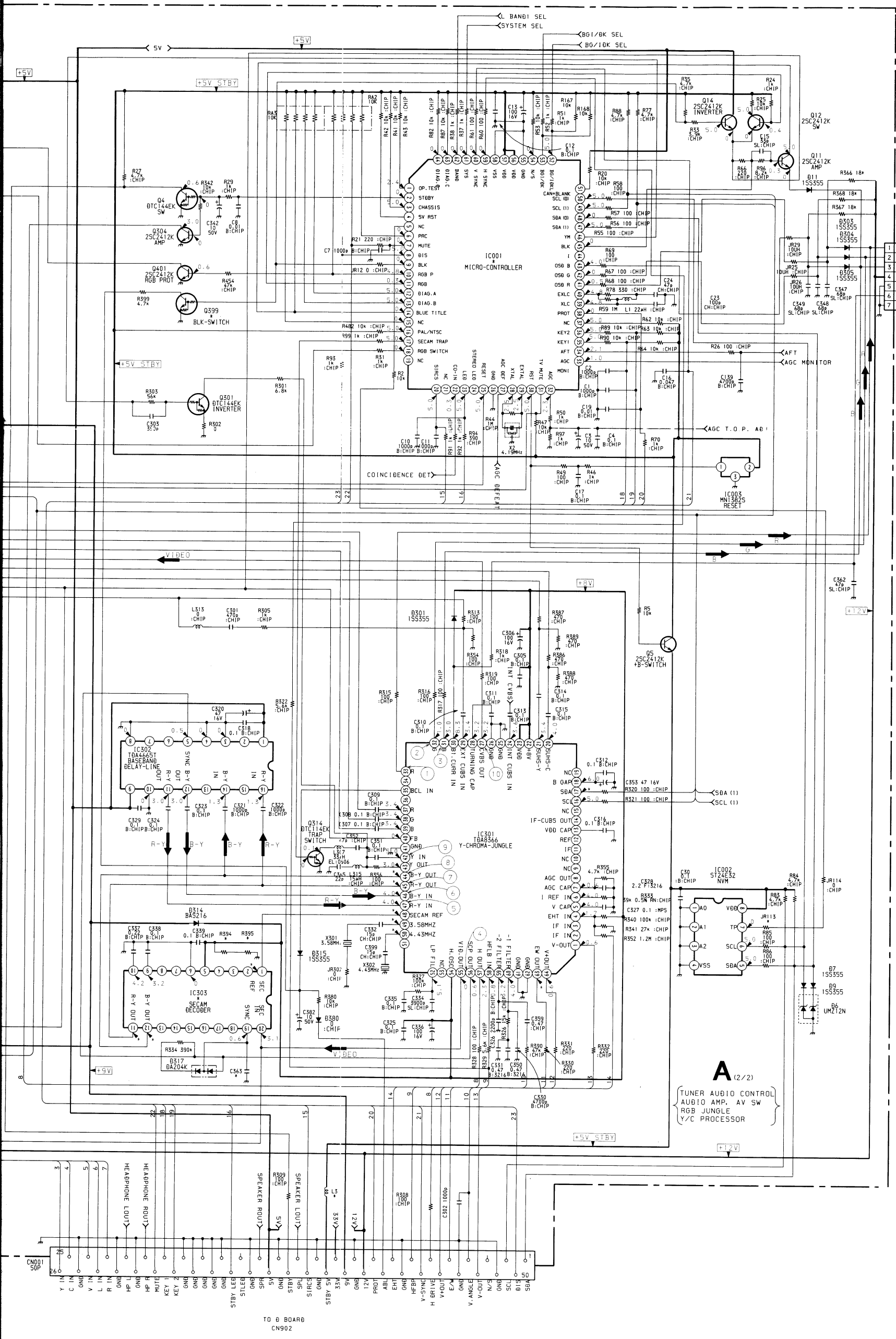


A BOARD IC301 TDA8366


IC1002 TELETEXT DECODER
IC1003 MC14053BF RGB SW
IC001 MICRO-CONTROLLER
IC401 CXA1855Q A/V SW
IC302 TDA4665T BASEBAND DELAY-LINE
IC301 TDA8366 Y-CHROMA-JUNGLE
IC303 SECAM DECODER
Q1001 2SC2412K BUFFER
Q4 DTC144EK SW
Q304 2SC2412K AMP
Q401 2SC2412K RGB PROT
Q399 BLK-SWITCH
Q301 DTC144EK INVERTER
Q407 DTC123EK MUTE
Q408 2SC2412K BUFFER
Q403 2SC2412K BUFFER
Q404 2SC2412K BUFFER
Q402 2SC2412K BUFFER
Q381 2SC2412K BUFFER
Q512 2SC2412K AMP
Q380 2SC2412K SW
Q313 2SC2412K BUFFER
Q314 DTC114EK TRAP SWITCH
D1002 DAN202K-T-146
D401 UMZ12N
D402 UMZ12N
D404 UMZ12N
D406 UMZ12N
D408 UMZ12N
D407 UMZ12N
D409 UMZ12N
D301 1SS355
D315 1SS355
D314 BA5216
D317 DA204K
D380
L1001 68uH EL:0606
L1002 68uH EL:0606
L308 180uH EL:0606
L309 180uH EL:0606
L310 6.8uH EL:0606
L401 68uH :3225
L313
X301 3.58MHz
X302 4.43MHz
X2 4.19MHz
CN001 50P
CN003 4P WHT
TO D BOARD CN902
OPEN
+5V
+5V STBY
+9V
+12V
5V
9V
VIDEO
L BAND1 SEL
SYSTEM SEL
COINCIDENCE DET
AGC DEFEAT
SCART1 ROUT
SCART1 LOUT
SCART LIN
SCART RIN
HEADPHONE LOUT
HEADPHONE ROUT
SPEAKER ROUT
SPEAKER LOUT
MICRO-CONTROLLER
Y-CHROMA-JUNGLE
TELETEXT DECODER
SECAM DECODER
DELAY-LINE
A/V SW
BASEBAND

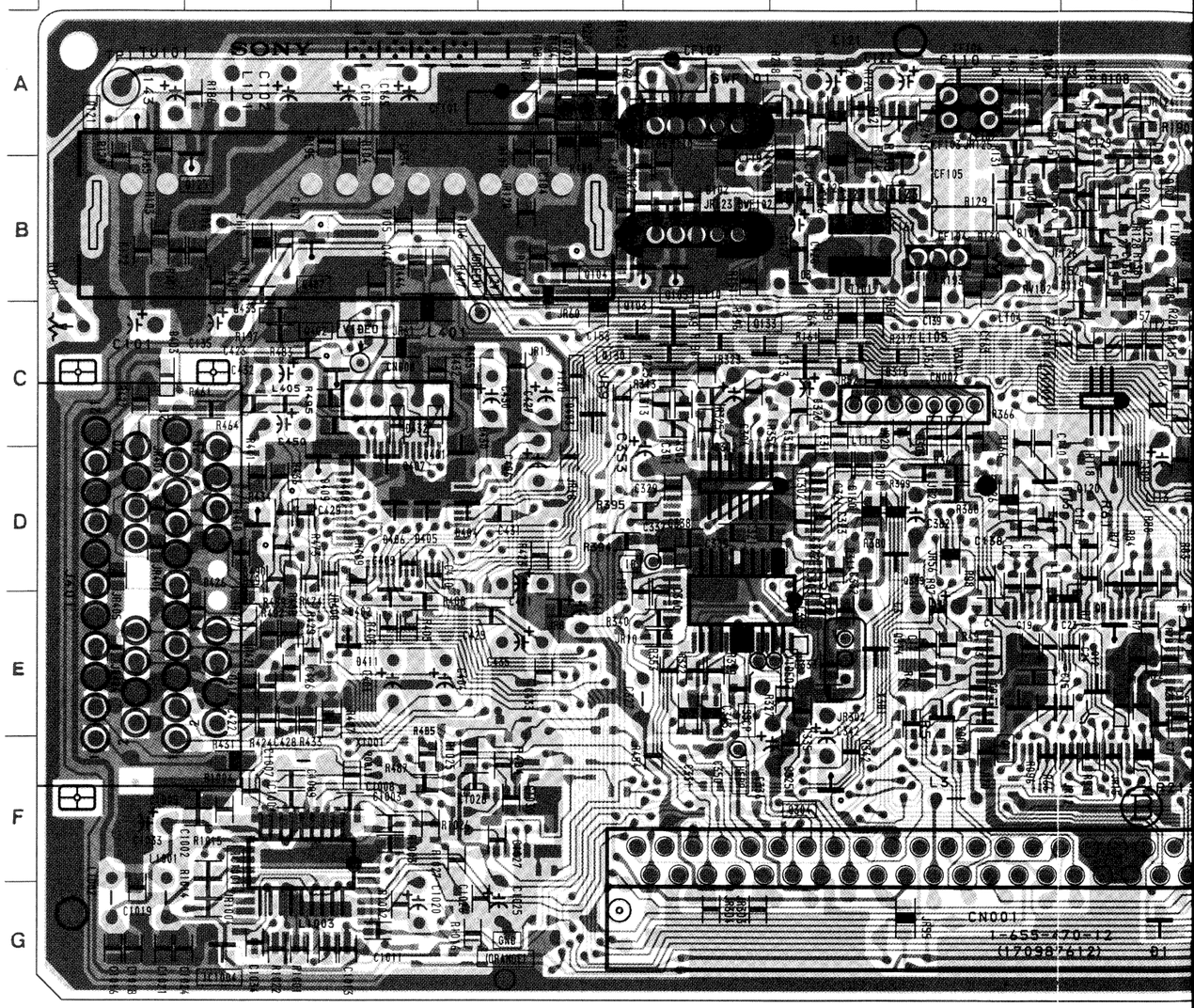

L BAND1 SEL
SYSTEM SEL
BG1/DK SEL
BG/I DK SEL
5V
+5V
+5V STBY
IC001
MICRO-CONTROLLER
OP.TEST
STDBY
CHASSIS
5V RST
NC
PRC
MUTE
DIS
BLK
RGB P
RGB
DIAG.A
DIAG.B
BLUE TITLE
NC
PAL/NTSC
SECAM TRAP
RGB SWITCH
NC
CAN+BLANK
SCL (0)
SCL (1)
SDA (0)
SDA (1)
YM
BLK
I
OSD B
OSD G
OSD R
EXLC
XLC
PROT
NC
KEY2
KEY1
AFT
AGC
MONI
SIRCS
NC
CO-IN
BEL
STEREO BEL
RESET
GND
AGC DET
XTAL
XTAL
RST
TV MUTE
AGC
Q14 2SC2412K INVERTER
Q12 2SC2412K SW
Q11 2SC2412K AMP
Q4 DTC144EK SW
Q304 2SC2412K AMP
Q401 2SC2412K RGB PROT
Q399 BLK-SWITCH
Q301 DTC144EK INVERTER
AFT
AGC MONITOR
AGC T.O.P. ADJ
COINCIDENCE DET
AGC DET
IC003 MN13825 RESET
CN002 7P WHT
R OUT
G OUT
B OUT
+12V
GND
AUTO CUTOFF
GND
TO C BOARD CN703
VIDEO
+8V
Q5 2SC2412K +B-SWITCH
IC302 TDA4665T BASEBAND DELAY-LINE
IC303 SECAM DECODER
IC301 TDA8566 Y-CHROMA-JUNGLE
IC002 ST24E32 NVM
SDA (1)
SCL (1)
CN001 50P
TO D BOARD CN902
HEADPHONE LOUT
HEADPHONE ROUT
SPEAKER ROUT
SPEAKER LOUT
A (2/2)
TUNER AUDIO CONTROL
AUDIO AMP. AV SW
RGB JUNGLE
Y/C PROCESSOR

A BOARD * MARK

Ref. No.	C2173B	C2171D	C2173E	C2171K	C2171KR
C101	4.7MF 50V	22MF 50V	22MF 50V	22MF 50V	22MF 50V
C143	100MF 16V	–	–	–	–
C145	–	0 : CHIP	0 : CHIP	–	–
C146	–	0 : CHIP	0 : CHIP	–	–
C154	33P	68P	68P	68P	68P
C155	–	18P	18P	18P	18P
C157	68P	33P	33P	33P	33P
C162	0.012MF	–	–	–	–
C163	0.001MF	–	–	–	–
C363	22P	22P	22P	–	–
C1020	–	22MF 50V	22MF 50V	22MF 50V	22MF 50V
C1033	–	10MF 50V	10MF 50V	10MF 50V	10MF 50V
CF102	5.5MHz/6.6MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz
CF104	6.0MHz	6.5MHz	–	6.5MHz	6.5MHz
CF107	–	–	–		
CF108	6.0MHz	–	–	–	–
D102	DAN202K	–	–	–	–
D103	DAN202K	DAN202K	–	DAN202K	DAN202K
D108	–	–	–	DAN202K	DAN202K
IC001	CXP85340A-117Q	CXP85340A-117Q	CXP85340A-116Q	CXP85340A-117Q	CXP85340A-117Q
IC101	TDA9814T/V2	TDA9813T	TDA9813T	TDA9813T	TDA9813T
IC1002	CF70200FN	CF70203FN	CF70200FN	CF70203FN	CF70209FN
JR51	–	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR113	–	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR115	–	–	–	0 : CHIP	0 : CHIP
JR122	–	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR123	–	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR124	0 : CHIP	0 : CHIP	0 : CHIP	–	–
JR125	–	–	0 : CHIP	–	–
JR201	–	0 : CHIP	–	0 : CHIP	0 : CHIP
JR202	–	0 : CHIP	–	0 : CHIP	0 : CHIP
L3	68uH	–	–	–	–
L104	100uH	–	–	–	–
L105	5.6uH	12uH	12uH	12uH	12uH
L106	0 : CHIP	–	–	–	–
L108	27uH	39uH	39uH	39uH	39uH
Q103	DTC114EK	–	–	–	–
Q104	DTC114EK	–	–	–	–
Q105	DTC114EK	–	–	–	–
Q116	DTC144EK	DTC144EK	–	–	–
Q117	DTC144EK	DTC144EK	–	–	–
Q121	2SA1037K	–	–	–	–
Q125	DTC114EK	–	–	–	–
Q126	–	–	–	DTC144EK	DTC144EK
Q127	–	–	–	DTC144EK	DTC144EK
Q128	–	–	–	DTC144EK	DTC144EK
Q305	–	–	JC501	–	–
Q399	DTC144EK	–	–	–	–
R134	2.2K	2.2K	–	2.2K	2.2K
R135	2.2K	2.2K	–	2.2K	2.2K
R143	2.2K	2.2K	–	–	–
R147	180	220	220	220	220
R188	–	–	–	2.2K	2.2K
R189	–	–	–	1K	1K
R190	–	–	–	2.2K	2.2K
R191	–	–	–	2.2K	2.2K
R193	1K	–	–	–	–
R199	1.2K	1K	1K	1K	1K
R304	–	–	10K	–	–
R394	2.2K	–	2.2K	–	–
R395	1K	–	1K	–	–
RV102	22K	–	–	–	–
SWF102	K9453M	K9350M	K9350M	K9350M	K9350M

A TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR

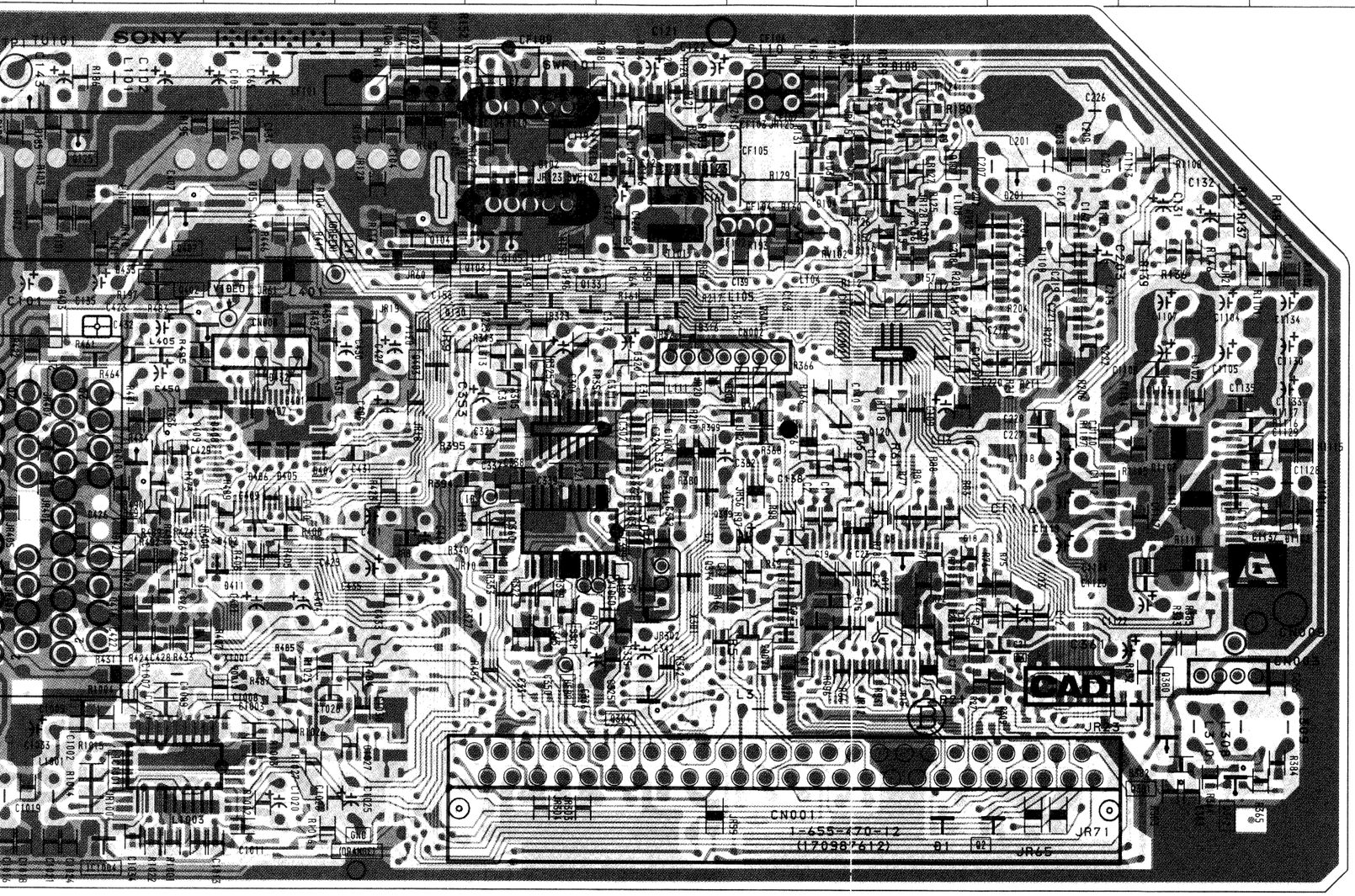
— A BOARD —

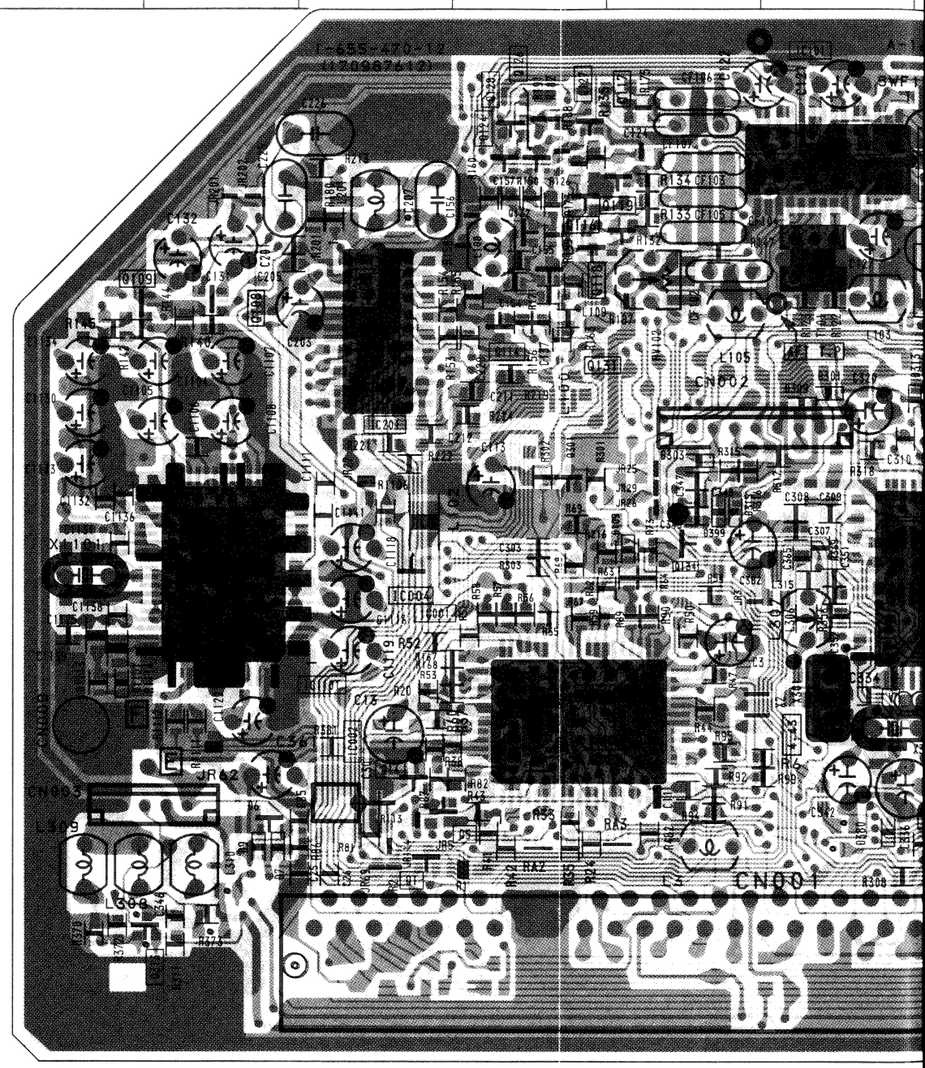


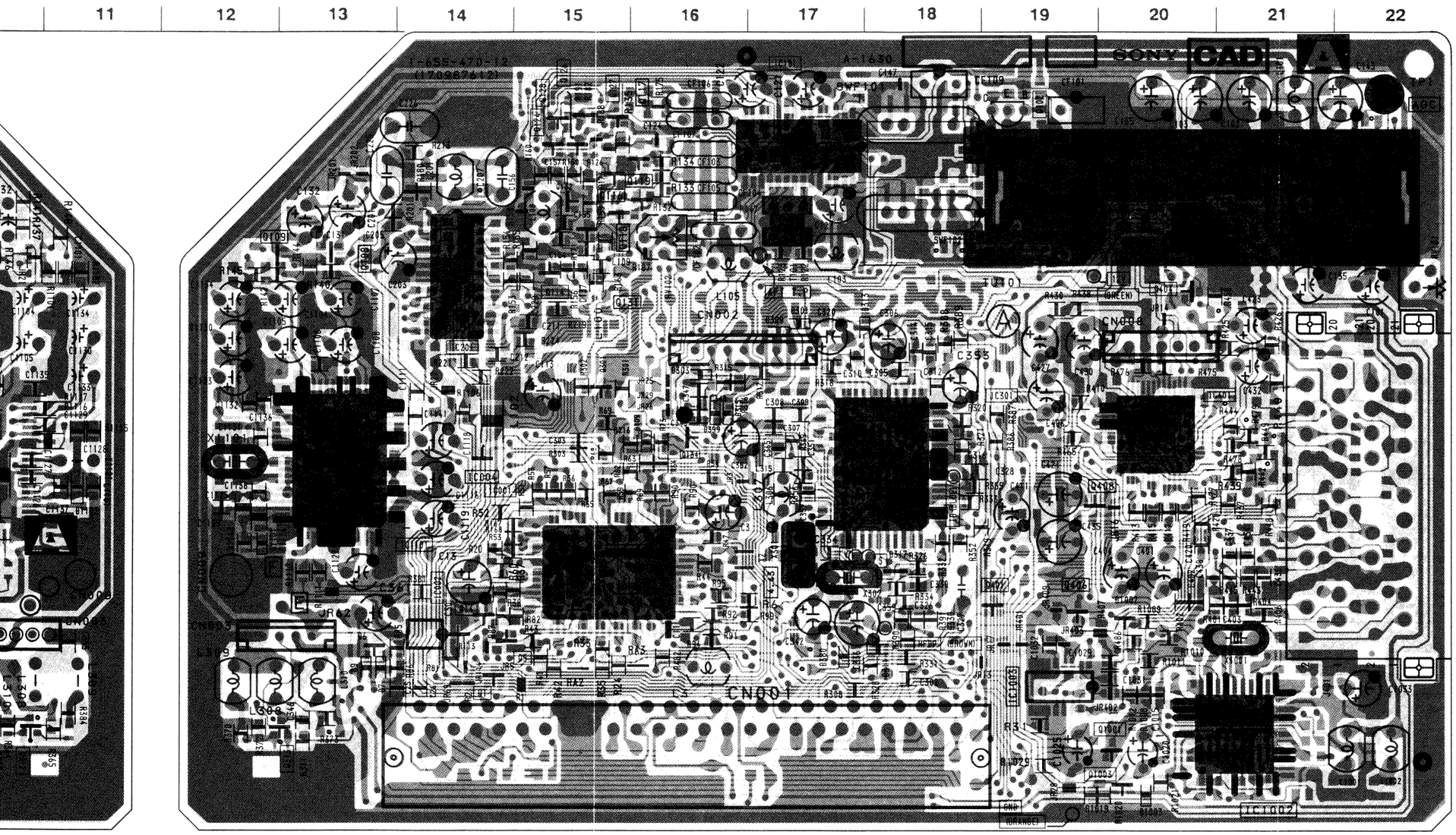
TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR

OARD —

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17






11
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SONY CAD
A
CN001
CN002
CN003
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CN005
CN006
CN007
CN008
IC1002
L105
L132
L309
C395
R134
R135
R137
R139
R140
R141
R142
R143
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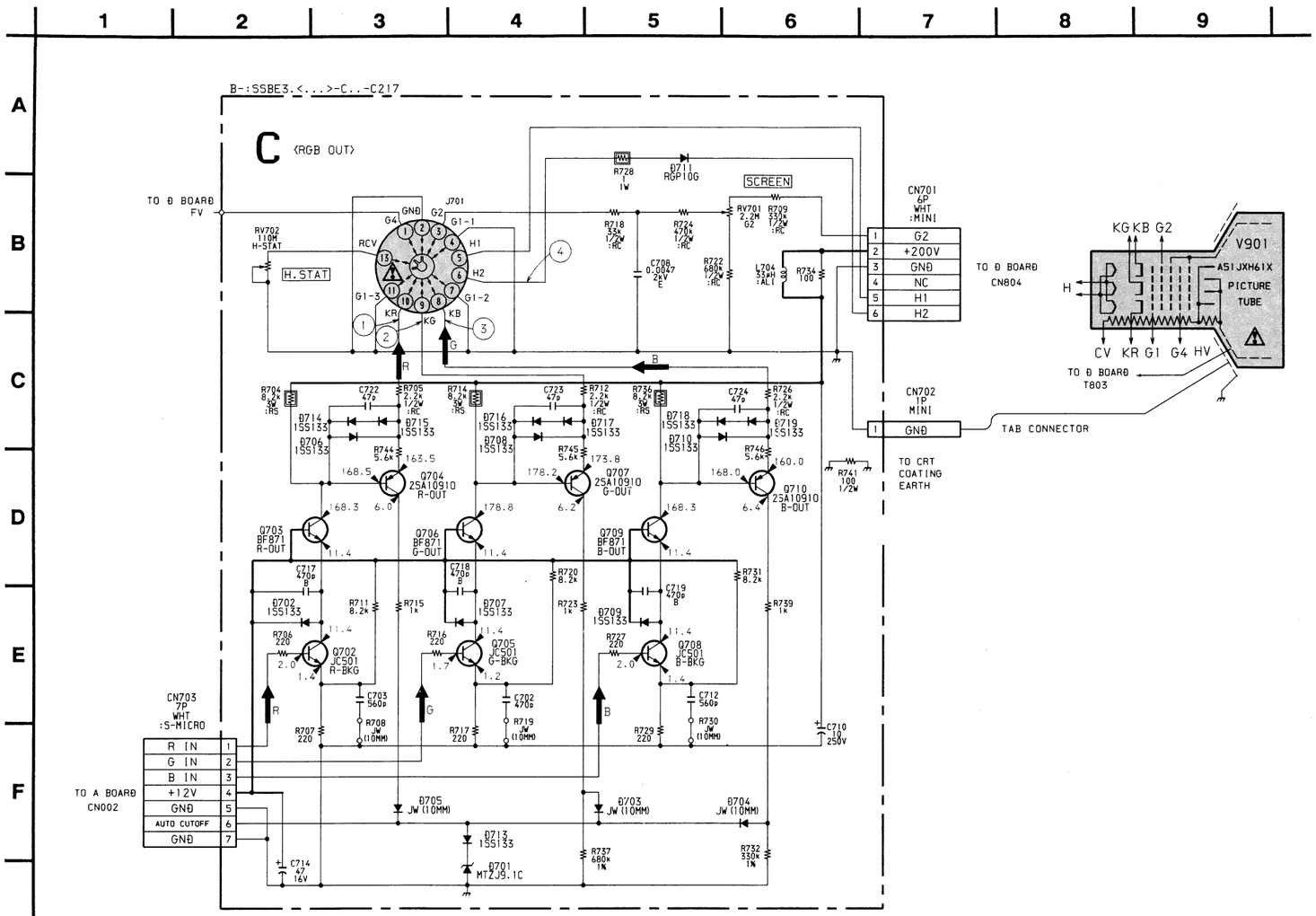
R178

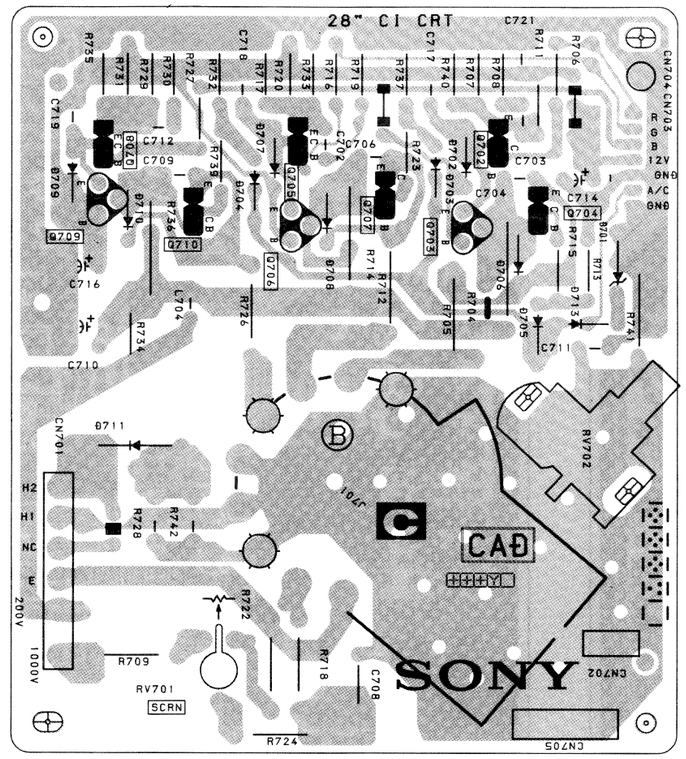


WAVEFORMS C BOARD

①	②	③	④
103 Vp-p (H)	76.0 Vp-p (H)	100 Vp-p (H)	18.5 Vp-p (H)

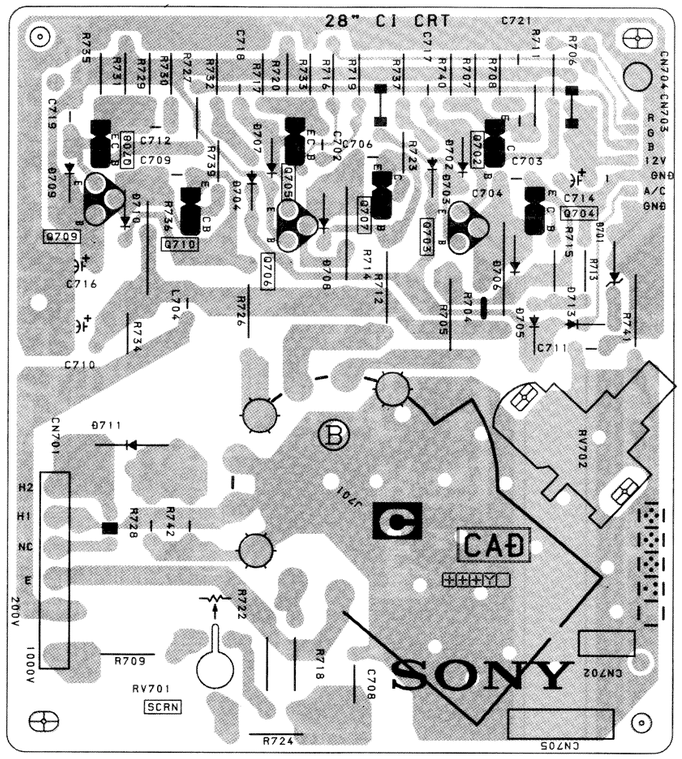
C [RGB OUT]

— C BOARD —



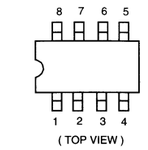
C [RGB OUT]

— C BOARD —



5-4. SEMICONDUCTORS

BA7046F



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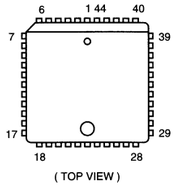

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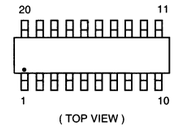

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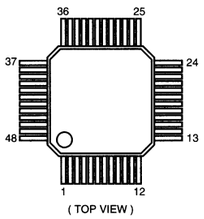

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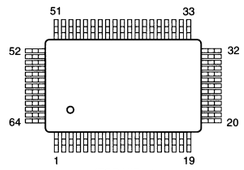

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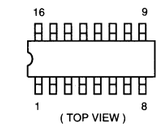

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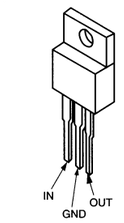

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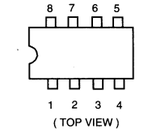

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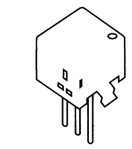

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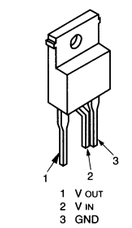

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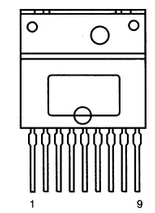

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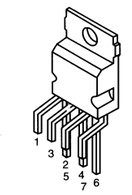

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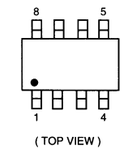

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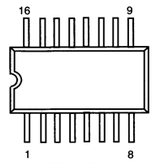

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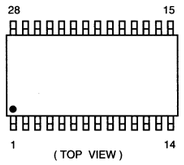

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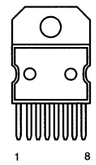

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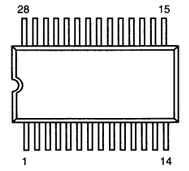
TDA9814T/V2



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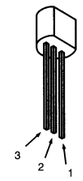

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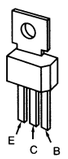

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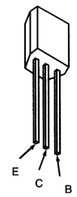

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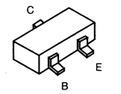

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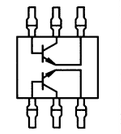
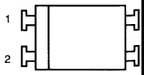


TLP721(D4)-GR



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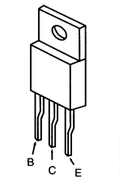

5-4. SEMICONDUCTORS

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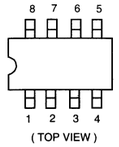

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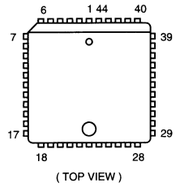

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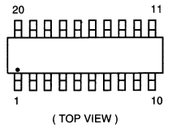

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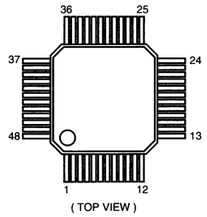

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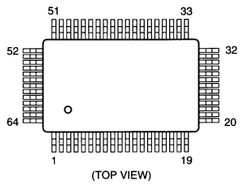

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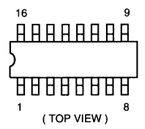

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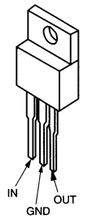

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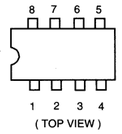

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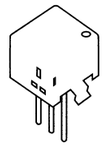

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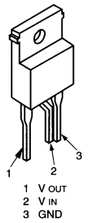

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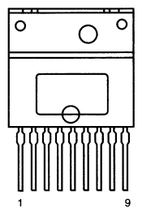

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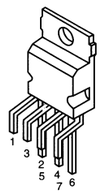

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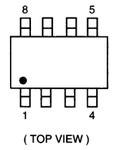

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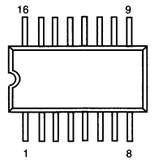

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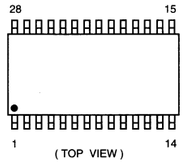

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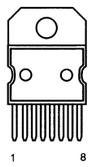

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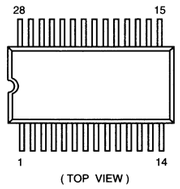

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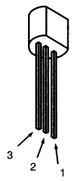

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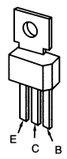

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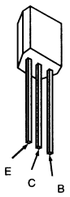

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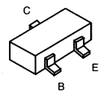

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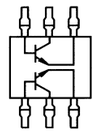
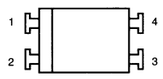


TLP721(D4)-GR



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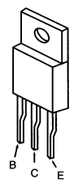

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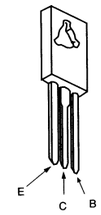

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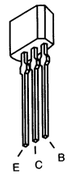

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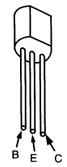

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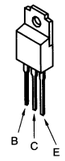

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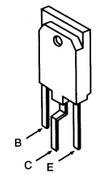

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EM1-V1
EU-1-V1
EU-1Z
EU-1Z-V1
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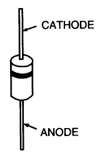
RGP15GPKG23
RU-3YX-V1
RU4AM
RU4DS



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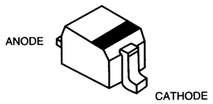

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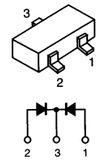

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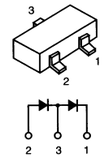

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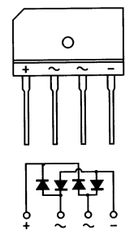

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MTZJ-3.9B
MTZJ-4.7B
MTZJ-5.1B
MTZJ-5.6B
MTZJ-6.8C
MTZJ-7.5C
MTZJ-T-77-9.1
MTZJ-T-77-9.1A
MTZJ-9.1C
MTZJ-39C
RD3.9ESB2
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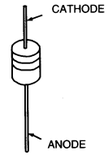

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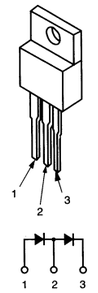

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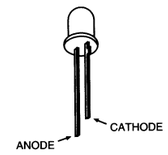


SECTION 6
EXPLODED VIEWS

NOTE :

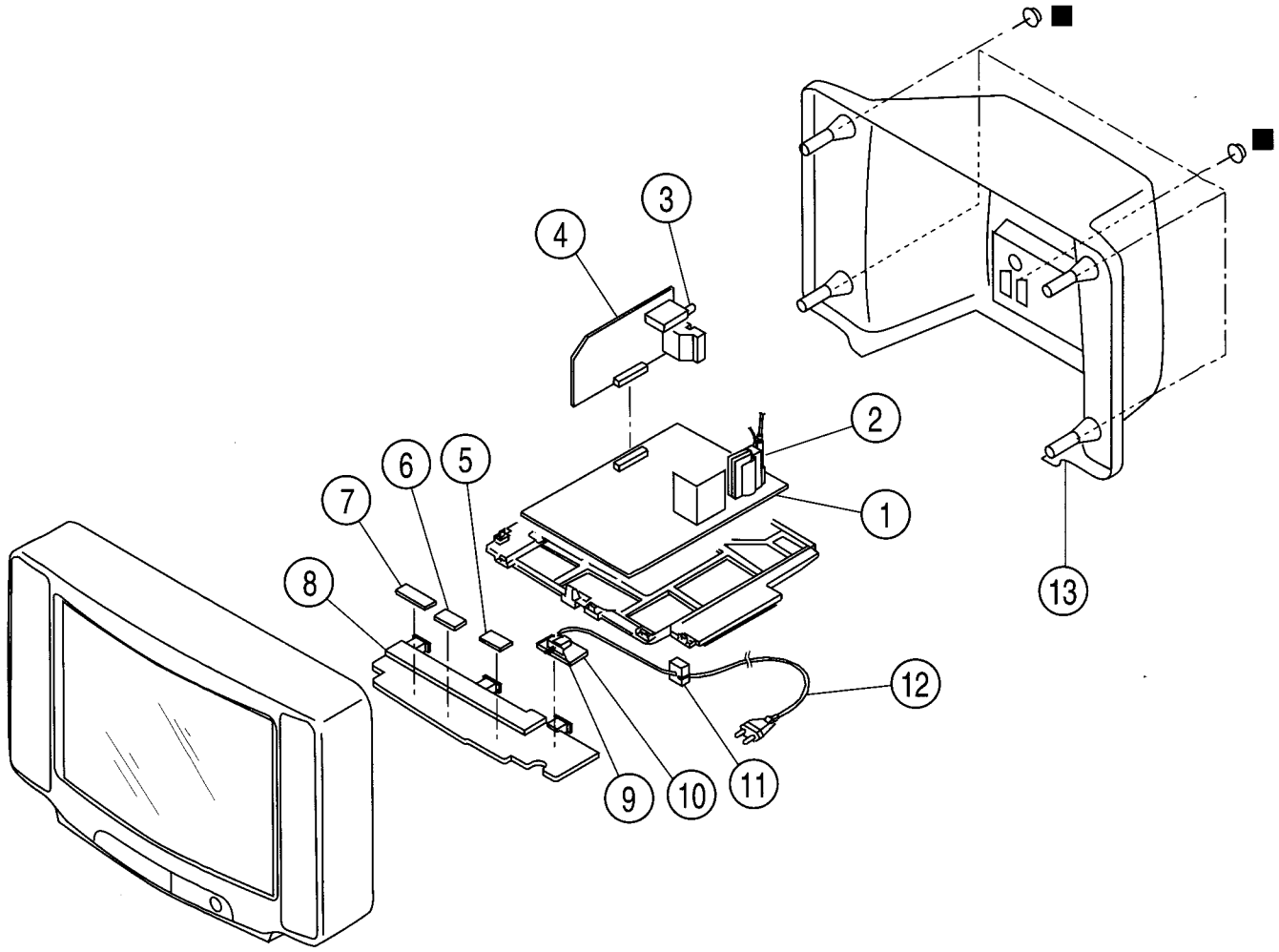
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

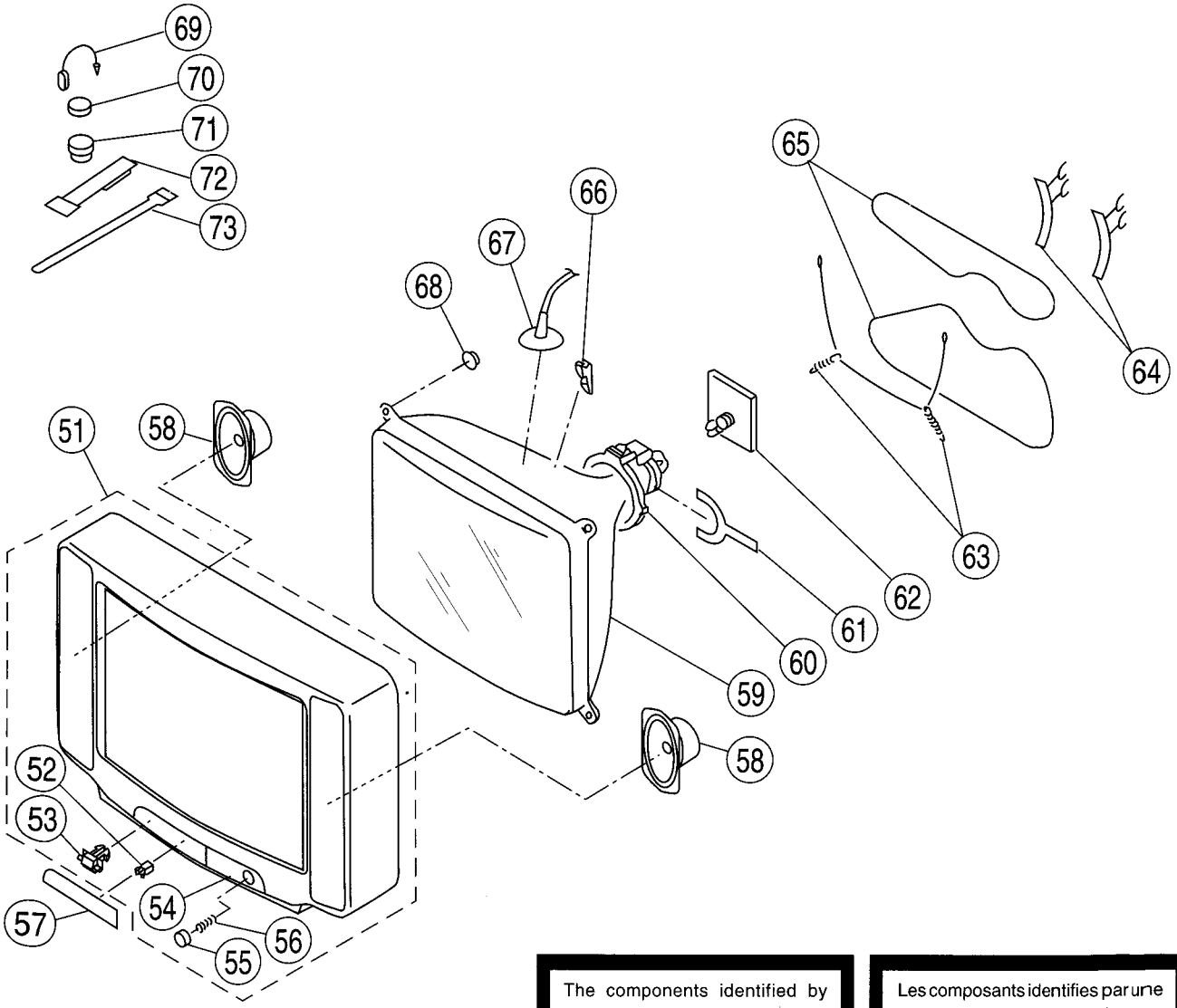
6-1. CHASSIS

■ : +BVTP 4X16 7-685-663-79



REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1642-122-A	D BOARD, COMPLETE	
2	⚠ 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	
3	8-598-045-00	TUNER (BTP-EC411)	
4	*A-1632-289-A	A BOARD, COMPLETE (KV-C2173B)	
	*A-1632-294-A	A BOARD, COMPLETE (KV-C2171D)	
	*A-1632-290-A	A BOARD, COMPLETE (KV-C2173E)	
	*A-1632-325-A	A BOARD, COMPLETE (KV-C2171K)	
	*A-1632-370-A	A BOARD, COMPLETE (KV-C2171KR)	
5	*A-1646-070-A	H2 BOARD, COMPLETE	
6	*A-1646-093-A	H3 BOARD, COMPLETE	
7	*A-1646-092-A	H1 BOARD, COMPLETE	
8	*4-203-180-01	BRACKET, H	
9	⚠ 1-571-433-21	SWITCH, PUSH (AC POWER)	
10	*A-1624-050-A	F1 BOARD, COMPLETE	
11	4-389-201-11	HOLDER, AC CORD	
12	⚠ 1-690-270-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-C2173B/C2173E/C2171K/C2171KR)	
	⚠ 1-765-286-11	CORD, POWER (WITH FILTER) 2.5A/250V (KV-C2171D)	
13	4-203-172-01	COVER, REAR	

6-2. PICTURE TUBE



The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-233-1	BEZNET ASSY	52 - 56
52	4-392-036-01	CATCHER, PUSH	
53	4-203-179-01	DOOR, CONTROL (PAINTED)	
54	3-703-035-11	SHAFT, LID	
55	4-203-176-01	BUTTON, POWER	
56	4-202-964-01	SPRING	
57	4-203-175-01	WINDOW, ORNAMENTAL	
58	1-544-525-11	SPEAKER	
59	⚠ 8-738-783-05	PICTURE TUBE (SD-169) (A51JXH61X)	
60	⚠ 8-451-295-43	DEFLECTION YOKE (Y21PFA2)	
61	1-452-277-00	MAGNET, BMC	
62	*A-1638-055-A	C BOARD, COMPLETE	
63	4-369-318-21	SPRING, TENSION	
64	*4-386-622-11	BAND, DGC	
65	⚠ 1-406-828-11	COIL, DEGAUSSING	
66	3-704-495-01	SPACER, DY	
67	⚠ 1-540-006-22	CAP ASSY, HIGH-VOLTAGE	
68	4-203-177-01	SCREW SELF TAPPING	
69	4-308-870-00	CLIP, LEAD WIRE	
70	1-452-032-00	MAGNET, DISK; 10MM Ø	
71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
72	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
73	3-701-007-00	BAND, BINDING	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS MF : mF, PF : mmF

COILS MMH : mH, μH : mH

F1 A

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1624-050-A	F1 BOARD, COMPLETE	
		**********	
		< CONNECTOR >	
CN603	⚠ *1-580-844-11	PIN, CONNECTOR (POWER)	
CN604	⚠ *1-695-292-11	PIN, CONNECTOR (POWER)	
		< FUSE >	
F601	⚠ 1-576-232-21	FUSE (H.B.C.) 5.0A/250V	
	⚠ 1-533-230-11	HOLDER, FUSE , F601	
		< SWITCH >	
S601	⚠ 1-571-433-11	SWITCH, PUSH (AC POWER)	
		**********	
	*A-1632-289-A	A BOARD, COMPLETE (KV-C2173B)	
		**********	
	*A-1632-294-A	A BOARD, COMPLETE (KV-C2171D)	
		**********	
	*A-1632-290-A	A BOARD, COMPLETE (KV-C2173E)	
		**********	
	*A-1632-325-A	A BOARD, COMPLETE (KV-C2171K)	
		**********	
	*A-1632-370-A	A BOARD, COMPLETE (KV-C2171KR)	
		**********	
TP1	*1-535-084-00	1P TERMINAL PIN	
		< CAPACITOR >	
C1	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C2	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C3	1-126-964-11	ELECT 10MF 20% 50V	
C4	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C7	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C8	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C10	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C11	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C12	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C13	1-126-933-11	ELECT 100MF 20% 16V	
C15	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C16	1-163-809-11	CERAMIC CHIP 0.047MF 10% 25V	
C17	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C19	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C23	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C24	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C30	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C101	1-126-963-11	ELECT 4.7MF 20% 50V (KV-C2173B)	
	1-128-551-11	ELECT 22MF 20% 50V (KV-C2171D/C2173E/C2171K/C2171KR)	
C102	1-126-966-11	ELECT 33MF 20% 50V	
C103	1-126-966-11	ELECT 33MF 20% 50V	
C104	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C105	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C106	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C107	1-164-346-11	CERAMIC CHIP 1MF 16V	
C108	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C109	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C112	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C113	1-126-967-11	ELECT 47MF 20% 16V	
C114	1-164-346-11	CERAMIC CHIP 1MF 16V	
C115	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C117	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C118	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V	
C119	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C120	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C121	1-126-967-11	ELECT 47MF 20% 16V	
C122	1-126-967-11	ELECT 47MF 20% 16V	
C123	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V	
C124	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C125	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C126	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C127	1-126-966-11	ELECT 33MF 20% 50V	
C128	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C129	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C130	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C131	1-126-967-11	ELECT 47MF 20% 16V	
C132	1-126-967-11	ELECT 47MF 20% 16V	
C134	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C135	1-126-967-11	ELECT 47MF 20% 16V	
C137	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C139	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C142	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C143	1-104-665-11	ELECT 100MF 20% 16V (KV-C2173B)	
C144	1-162-638-11	CERAMIC CHIP 1MF 16V	
C145	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-C2171D/C2173E)	
C146	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-C2171D/C2173E)	
C149	1-216-295-91	METAL GLAZE 0 5% 1/10W	

A

REF.NO.	PART NO.	DESCRIPTION		REMARK
C152	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C153	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C154	1-163-105-00	CERAMIC CHIP 33PF	5%	50V (KV-C2173B)
	1-163-113-00	CERAMIC CHIP 68PF	5%	50V (KV-C2171D/C2173E/C2171K/C2171KR)
C155	1-163-099-00	CERAMIC CHIP 18PF	5%	50V (KV-C2171D/C2173E/C2171K/C2171KR)
C157	1-163-113-00	CERAMIC CHIP 68PF	5%	50V (KV-C2173B)
	1-163-105-00	CERAMIC CHIP 33PF	5%	50V (KV-C2171D/C2173E/C2171K/C2171KR)
C160	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C162	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V (KV-C2173B)
C163	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V (KV-C2173B)
C164	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C165	1-126-933-11	ELECT 100MF	20%	16V
C201	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C202	1-163-137-00	CERAMIC CHIP 680PF	5%	50V
C203	1-126-964-11	ELECT 10MF	20%	50V
C204	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V
C205	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C206	1-164-346-11	CERAMIC CHIP 1MF		16V
C207	1-137-613-11	FILM 0.0018MF	2%	100V
C208	1-164-346-11	CERAMIC CHIP 1MF		16V
C209	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V
C210	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C211	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C212	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C215	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V
C216	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V
C219	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V
C220	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V
C221	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C222	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C225	1-130-489-00	FILM 0.033MF	5%	50V
C226	1-130-489-00	FILM 0.033MF	5%	50V
C227	1-163-020-00	CERAMIC CHIP 0.0082MF	10%	50V
C228	1-163-020-00	CERAMIC CHIP 0.0082MF	10%	50V
C229	1-164-346-11	CERAMIC CHIP 1MF		16V
C301	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C302	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C303	1-163-131-00	CERAMIC CHIP 390PF	5%	50V
C305	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C306	1-126-933-11	ELECT 100MF	20%	16V
C307	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C308	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
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C311	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C312	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C313	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C314	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C315	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C316	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C318	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C320	1-126-967-11	ELECT 47MF	20%	16V
C321	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C322	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C323	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C324	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C325	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C326	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V
C327	1-136-165-00	FILM 0.1MF	5%	50V
C328	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C329	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C330	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C331	1-165-320-11	CERAMIC CHIP 0.47MF	10%	16V
C332	1-163-097-00	CERAMIC CHIP 15PF	5%	50V
C334	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C335	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C336	1-126-933-11	ELECT 100MF	20%	16V
C337	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V
C338	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C339	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C342	1-126-964-11	ELECT 10MF	20%	50V
C346	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C347	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C348	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C349	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C350	1-165-320-11	CERAMIC CHIP 0.47MF	10%	16V
C351	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C352	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C353	1-126-967-11	ELECT 47MF	20%	16V
C355	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C359	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C361	1-126-964-11	ELECT 10MF	20%	50V
C362	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C363	1-163-101-00	CERAMIC CHIP 22PF	5%	50V (KV-C2173B/C2171D/C2173E)
C365	1-163-101-00	CERAMIC CHIP 22PF	5%	50V
C382	1-126-964-11	ELECT 10MF	20%	50V
C383	1-163-101-00	CERAMIC CHIP 22PF	5%	50V
C399	1-163-097-00	CERAMIC CHIP 15PF	5%	50V
C401	1-126-967-11	ELECT 47MF	20%	16V
C402	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C403	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C404	1-126-967-11	ELECT 47MF	20%	16V
C406	1-126-964-11	ELECT 10MF	20%	50V
C407	1-164-346-11	CERAMIC CHIP 1MF		16V
C409	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C410	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C411	1-126-967-11	ELECT 47MF	20%	16V
C418	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C420	1-216-295-91	METAL GLAZE 0	5%	1/10W
C421	1-126-966-11	ELECT 33MF	20%	50V
C422	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C423	1-126-967-11	ELECT 47MF	20%	16V
C425	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C426	1-164-346-11	CERAMIC CHIP 1MF		16V
C427	1-126-967-11	ELECT 47MF	20%	16V
C428	1-164-346-11	CERAMIC CHIP 1MF		16V
C429	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C430	1-126-967-11	ELECT 47MF	20%	16V
C431	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C432	1-126-967-11	ELECT 47MF	20%	16V
C433	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C434	1-164-346-11	CERAMIC CHIP 1MF		16V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C435	1-126-933-11	ELECT	100MF	20%	16V
C436	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C437	1-164-346-11	CERAMIC CHIP	1MF		16V
C438	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C445	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1002	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1003	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C1004	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1005	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1006	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C1007	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1008	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1009	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1011	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1013	1-164-346-11	CERAMIC CHIP	1MF		16V
C1015	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1016	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1018	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1019	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1020	1-128-551-11	ELECT	22MF	20%	50V
		(KV-C2171D/C2173E/C2171K/C2171KR)			
C1021	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1024	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1025	1-126-967-11	ELECT	47MF	20%	16V
C1026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1028	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1029	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1030	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1032	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1033	1-126-964-11	ELECT	10MF	20%	50V
		(KV-C2171D/C2173E/C2171K/C2171KR)			
C1034	1-164-346-11	CERAMIC CHIP	1MF		16V
		< C1101 - C1139 FITTED ON >			
		< KV-C2173B/C2173E >			
C1101	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1102	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C1103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1104	1-126-964-11	ELECT	10MF	20%	50V
C1105	1-126-964-11	ELECT	10MF	20%	50V
C1106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1107	1-126-967-11	ELECT	47MF	20%	16V
C1108	1-126-964-11	ELECT	10MF	20%	50V
C1110	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1111	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C1112	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C1113	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C1116	1-126-967-11	ELECT	47MF	20%	16V
C1117	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1118	1-126-967-11	ELECT	47MF	20%	16V
C1119	1-126-967-11	ELECT	47MF	20%	16V
C1120	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C1122	1-126-967-11	ELECT	47MF	20%	16V
C1123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1125	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C1126	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1127	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1128	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C1129	1-162-568-11	CERAMIC CHIP	0.33MF		25V
C1130	1-124-903-11	ELECT	1MF	20%	50V
C1131	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1132	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1133	1-126-967-11	ELECT	47MF	20%	16V
C1134	1-126-964-11	ELECT	10MF	20%	50V
C1135	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C1136	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1137	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C1139	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		< FILTER >			
CF101	1-760-154-11	TRAP, CERAMIC			
CF102	1-409-430-11	TRAP, CERAMIC (KV-C2173B)			
	1-404-134-00	TRAP, CERAMIC (5.5MHZ)			
		(KV-C2171D/C2173E/C2171K/C2171KR)			
CF103	1-760-106-11	FILTER, CERAMIC			
CF104	1-567-100-00	FILTER, CERAMIC (KV-C2173B)			
	1-567-101-11	FILTER, CERAMIC			
		(KV-C2171D/C2171K/C2171KR)			
CF106	1-760-416-21	FILTER, CERAMIC			
CF107	1-760-449-11	FILTER, CERAMIC (KV-C2171K/C2171KR)			
CF108	1-760-107-11	FILTER, CERAMIC (KV-C2173B)			
SWF101	1-579-273-11	FILTER, SURFACE WAVE			
SWF102	1-760-244-11	FILTER, SURFACE WAVE (KV-C2173B)			
	1-760-329-11	FILTER, SURFACE WAVE			
		(KV-C2171D/C2173E/C2171K/C2171KR)			
		< CONNECTOR >			
CN001	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P			
CN002	*1-568-882-51	PIN, CONNECTOR 7P			
CN003	*1-568-879-11	PIN, CONNECTOR 4P			
		< DIODE >			
D6	8-719-047-41	DIODE UMZ12N-T106			
D7	8-719-988-62	DIODE 1SS355			
D9	8-719-988-62	DIODE 1SS355			
D11	8-719-988-62	DIODE 1SS355			
D101	8-719-977-81	DIODE DTZ33B			
D102	8-719-914-43	DIODE DAN202K (KV-C2173B)			
D103	8-719-914-43	DIODE DAN202K			
		(KV-C2173B/C2171D/C2171K/C2171KR)			
D108	8-719-914-43	DIODE DAN202K (KV-C2171K/C2171KR)			
D201	8-719-914-42	DIODE DA204K			
D301	8-719-988-62	DIODE 1SS355			
D303	8-719-988-62	DIODE 1SS355			
D304	8-719-988-62	DIODE 1SS355			
D305	8-719-988-62	DIODE 1SS355			
D314	8-719-047-16	DIODE BAS216			
D315	8-719-988-62	DIODE 1SS355			
D317	8-719-914-42	DIODE DA204K			
D380	1-216-295-91	METAL GLAZE	0	5%	1/10W
D401	8-719-047-41	DIODE UMZ12N-T106			
D402	8-719-047-41	DIODE UMZ12N-T106			
D404	8-719-047-41	DIODE UMZ12N-T106			
D405	8-719-047-41	DIODE UMZ12N-T106			
D406	8-719-047-41	DIODE UMZ12N-T106			
D407	8-719-047-41	DIODE UMZ12N-T106			
D408	8-719-047-41	DIODE UMZ12N-T106			

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D409	8-719-047-41	DIODE UMZ12N-T106	
D410	8-719-047-41	DIODE UMZ12N-T106	
D411	8-719-047-41	DIODE UMZ12N-T106	
D1002	8-719-914-43	DIODE DAN202K	
D1101	8-719-988-62	DIODE 1SS355 (KV-C2173B/C2173E)	
D1102	8-719-820-71	DIODE 1SV214 (KV-C2173B/C2173E)	
		< IC >	
IC001	8-752-857-01	IC CXP85340A-117Q-TL (KV-C2173B/C2171D/C2171K/C2171KR)	
	8-752-857-00	IC CXP85340A-116Q-TL (KV-C2173E)	
IC002	8-759-334-20	IC ST24E32M6TR	
IC003	8-759-041-54	IC MN1382S	
IC101	8-759-289-18	IC TDA9813T-T (KV-C2171D/C2173E/C2171K/C2171KR)	
	8-759-277-66	IC TDA9814T/V2 (KV-C2173B)	
IC201	8-759-252-14	IC TDA6612-5X-GEG	
IC202	8-759-514-57	IC BA7046F	
IC301	8-759-336-44	IC TDA8366H-N3	
IC302	8-759-288-85	IC TDA4665T-T	
IC303	8-759-251-56	IC TDA8395T	
IC401	8-752-069-53	IC CXA1855Q-T6	
IC1001	8-759-295-92	IC CF72416DW-R	
IC1002	8-759-252-10	IC CF70200FN-R/C (KV-C2173B/C2173E)	
	8-759-336-09	IC CF70203FN-F (KV-C2171D/C2171K)	
	8-759-361-19	IC CF70209FN-R (KV-C2171KR)	
IC1003	8-759-300-71	IC HD14053BF	
IC1101	8-759-251-58	IC SAA7283GP (KV-C2173B/C2173E)	
		< SOCKET >	
J401	1-766-296-11	CONNECTOR, DUAL SCART	
		< COIL >	
L1	1-410-385-11	INDUCTOR CHIP 22UH	
L3	1-408-419-00	INDUCTOR 68UH (KV-C2173B)	
L100	1-410-989-11	INDUCTOR CHIP 0.47UH	
L101	1-408-609-41	INDUCTOR 33UH	
L102	1-410-214-31	INDUCTOR CHIP 68UH	
L103	1-408-609-41	INDUCTOR 33UH	
L104	1-414-170-11	INDUCTOR CHIP 100UH (KV-C2173B)	
L105	1-408-406-00	INDUCTOR 5.6UH (KV-C2173B)	
	1-408-410-00	INDUCTOR 12UH (KV-C2171D/C2173E/C2171K/C2171KR)	
L106	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-C2173B)	
L107	1-410-985-11	INDUCTOR CHIP 0.22UH	
L108	1-408-414-00	INDUCTOR 27UH (KV-C2173B)	
	1-408-416-00	INDUCTOR 39UH (KV-C2171D/C2173E/C2171K/C2171KR)	
L109	1-412-010-41	INDUCTOR CHIP 22UH	
L110	1-412-004-31	INDUCTOR CHIP 6.8UH	
L111	1-414-170-11	INDUCTOR CHIP 100UH	
L112	1-410-200-31	INDUCTOR CHIP 4.7UH	
L201	1-410-067-21	INDUCTOR 4.7MMH	
L307	1-408-609-41	INDUCTOR 33UH	
L308	1-408-424-00	INDUCTOR 180UH	
L309	1-408-424-00	INDUCTOR 180UH	
L310	1-408-407-00	INDUCTOR 6.8UH	
L313	1-216-295-91	METAL GLAZE 0 5% 1/10W	
L315	1-412-008-11	INDUCTOR CHIP 15UH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
L401	1-410-214-31	INDUCTOR CHIP 68UH	
L1001	1-408-419-00	INDUCTOR 68UH	
L1002	1-408-419-00	INDUCTOR 68UH	
L1003	1-410-999-11	INDUCTOR CHIP 3.3UH	
L1101	1-412-004-31	INDUCTOR CHIP 6.8UH (KV-C2173B/C2173E)	
T101	1-403-686-11	COIL	
		< TRANSISTOR >	
Q4	8-729-901-01	TRANSISTOR DTC144EK	
Q5	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q11	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q12	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q102	8-729-022-54	TRANSISTOR 2SC3779C,D-AA	
Q103	8-729-900-53	TRANSISTOR DTC114EK (KV-C2173B)	
Q104	8-729-900-53	TRANSISTOR DTC114EK (KV-C2173B)	
Q105	8-729-900-53	TRANSISTOR DTC114EK (KV-C2173B)	
Q107	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q108	8-729-907-26	TRANSISTOR IMX1	
Q109	8-729-907-26	TRANSISTOR IMX1	
Q114	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q116	8-729-901-01	TRANSISTOR DTC144EK (KV-C2173B/C2171D)	
Q117	8-729-901-01	TRANSISTOR DTC144EK (KV-C2173B/C2171D)	
Q120	8-729-216-22	TRANSISTOR 2SA1162-G	
Q121	8-729-216-22	TRANSISTOR 2SA1162-G (KV-C2173B)	
Q123	8-729-901-01	TRANSISTOR DTC144EK	
Q124	8-729-901-01	TRANSISTOR DTC144EK	
Q125	8-729-900-53	TRANSISTOR DTC114EK (KV-C2173B)	
Q126	8-729-901-01	TRANSISTOR DTC144EK (KV-C2171K/C2171KR)	
Q127	8-729-901-01	TRANSISTOR DTC144EK (KV-C2171K/C2171KR)	
Q128	8-729-901-01	TRANSISTOR DTC144EK (KV-C2171K/C2171KR)	
Q130	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q131	8-729-216-22	TRANSISTOR 2SA1162-G	
Q132	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q133	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q134	8-729-900-53	TRANSISTOR DTC114EK	
Q301	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q304	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q314	8-729-900-53	TRANSISTOR DTC114EK	
Q380	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q381	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q399	8-729-901-01	TRANSISTOR DTC144EK (KV-C2173B)	
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-920-65	TRANSISTOR DTC123EK	
Q408	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q1001	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		< RESISTOR >	
JR3	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR8	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR9	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR10	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR12	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR13	1-216-295-91	METAL GLAZE 0 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
JR14	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR15	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR16	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR17	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR18	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR19	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR20	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR25	1-412-006-31	INDUCTOR CHIP 10UH	
JR26	1-412-006-31	INDUCTOR CHIP 10UH	
JR28	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR29	1-412-006-31	INDUCTOR CHIP 10UH	
JR51	1-216-296-91	METAL GLAZE 0 5% 1/8W	(KV-C2171D/C2173E/C2171K/C2171KR)
JR52	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR55	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR56	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR59	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR60	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR61	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR62	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR65	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR71	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR113	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2171D/C2173E/C2171K/C2171KR)
JR114	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR115	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2171K/C2171KR)
JR120	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR122	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2171D/C2173E/C2171K/C2171KR)
JR123	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2171D/C2173E/C2171K/C2171KR)
JR124	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2173B/C2171D/C2173E)
JR125	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2173E)
JR126	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR201	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2171D/C2171K/C2171KR)
JR202	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2171D/C2171K/C2171KR)
JR302	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR408	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR1004	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R2	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R5	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R20	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R21	1-216-182-00	METAL GLAZE 220 5% 1/8W	
R24	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R25	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R26	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R27	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R29	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R31	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R33	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R35	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R37	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R38	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R41	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R42	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R43	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R44	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R46	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R47	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R49	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R50	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R51	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R52	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R53	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R54	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R55	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R56	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R57	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R58	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R59	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R60	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R61	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R62	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R63	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R64	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R66	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R67	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R68	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R69	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R70	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R73	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R77	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R78	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R82	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R83	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R84	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R85	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R86	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R87	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R88	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R89	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R90	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R91	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R92	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R93	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R94	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R96	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R97	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R99	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R101	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R103	1-208-810-11	METAL CHIP 15K 0.50% 1/10W	
R104	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R105	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R106	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R107	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R108	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R109	1-216-180-00	METAL GLAZE 180 5% 1/8W	
R110	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R111	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R112	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R113	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R114	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R115	1-218-755-11	METAL CHIP 130K 0.50% 1/10W	
R116	1-216-113-00	METAL GLAZE 470K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R117	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R118	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R119	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R120	1-216-035-00	METAL GLAZE	270	5%	1/10W
R121	1-216-035-00	METAL GLAZE	270	5%	1/10W
R122	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R123	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R124	1-216-031-00	METAL GLAZE	180	5%	1/10W
R125	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R126	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R127	1-216-041-00	METAL GLAZE	470	5%	1/10W
R128	1-216-043-91	METAL GLAZE	560	5%	1/10W
R130	1-216-043-91	METAL GLAZE	560	5%	1/10W
R131	1-216-043-91	METAL GLAZE	560	5%	1/10W
R134	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2173B/C2171D/C2171K/C2171KR)
R135	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2173B/C2171D/C2171K/C2171KR)
R136	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R137	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R139	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R140	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R141	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R142	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R143	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2173B/C2171D)
R144	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R145	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R146	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R147	1-216-031-00	METAL GLAZE	180	5%	1/10W (KV-C2173B)
	1-216-033-00	METAL GLAZE	220	5%	1/10W (KV-C2171D/C2173E/C2171K/C2171KR)
R148	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R149	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150	1-216-295-91	METAL GLAZE	0	5%	1/10W
R151	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R152	1-216-174-00	METAL GLAZE	100	5%	1/8W
R153	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R154	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R155	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R156	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R157	1-216-295-91	METAL GLAZE	0	5%	1/10W
R160	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R161	1-216-031-00	METAL GLAZE	180	5%	1/10W
R162	1-216-017-91	METAL GLAZE	47	5%	1/10W
R163	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R164	1-216-025-91	METAL GLAZE	100	5%	1/10W
R165	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R166	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R168	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R170	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R171	1-216-035-00	METAL GLAZE	270	5%	1/10W
R172	1-216-295-91	METAL GLAZE	0	5%	1/10W
R173	1-216-035-00	METAL GLAZE	270	5%	1/10W
R174	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R180	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R182	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R183	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R185	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R186	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R188	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2171K/C2171KR)
R189	1-216-049-91	METAL GLAZE	1K	5%	1/10W (KV-C2171K/C2171KR)
R190	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2171K/C2171KR)
R191	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2171K/C2171KR)
R193	1-216-049-91	METAL GLAZE	1K	5%	1/10W (KV-C2173B)
R194	1-216-180-00	METAL GLAZE	180	5%	1/8W
R195	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R196	1-216-017-91	METAL GLAZE	47	5%	1/10W
R197	1-216-041-00	METAL GLAZE	470	5%	1/10W
R198	1-216-029-00	METAL GLAZE	150	5%	1/10W
R199	1-216-049-91	METAL GLAZE	1K	5%	1/10W (KV-C2171D/C2173E/C2171K/C2171KR)
	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W (KV-C2173B)
R200	1-216-047-91	METAL GLAZE	820	5%	1/10W
R201	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R202	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R203	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R204	1-216-025-91	METAL GLAZE	100	5%	1/10W
R205	1-216-025-91	METAL GLAZE	100	5%	1/10W
R206	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R207	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R210	1-216-025-91	METAL GLAZE	100	5%	1/10W
R211	1-216-025-91	METAL GLAZE	100	5%	1/10W
R213	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R216	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R217	1-216-031-00	METAL GLAZE	180	5%	1/10W
R219	1-216-025-91	METAL GLAZE	100	5%	1/10W
R220	1-216-174-00	METAL GLAZE	100	5%	1/8W
R221	1-216-025-91	METAL GLAZE	100	5%	1/10W
R222	1-216-025-91	METAL GLAZE	100	5%	1/10W
R223	1-216-029-00	METAL GLAZE	150	5%	1/10W
R224	1-216-025-91	METAL GLAZE	100	5%	1/10W
R301	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R302	1-216-295-91	METAL GLAZE	0	5%	1/10W
R303	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R304	1-249-429-11	CARBON	10K	5%	1/4W (KV-C2173E)
R305	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R308	1-216-025-91	METAL GLAZE	100	5%	1/10W
R309	1-216-025-91	METAL GLAZE	100	5%	1/10W
R311	1-216-025-91	METAL GLAZE	100	5%	1/10W
R313	1-216-025-91	METAL GLAZE	100	5%	1/10W
R315	1-216-025-91	METAL GLAZE	100	5%	1/10W
R316	1-216-025-91	METAL GLAZE	100	5%	1/10W
R317	1-216-025-91	METAL GLAZE	100	5%	1/10W
R318	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R319	1-216-025-91	METAL GLAZE	100	5%	1/10W
R320	1-216-025-91	METAL GLAZE	100	5%	1/10W
R321	1-216-025-91	METAL GLAZE	100	5%	1/10W
R322	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R326	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R327	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R328	1-216-025-91	METAL GLAZE	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R329	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R330	1-216-033-00	METAL GLAZE	220	5%	1/10W
R331	1-216-033-00	METAL GLAZE	220	5%	1/10W
R332	1-216-033-00	METAL GLAZE	220	5%	1/10W
R333	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R334	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R340	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R341	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R342	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R352	1-216-123-11	METAL GLAZE	1.2M	5%	1/10W
R354	1-216-025-91	METAL GLAZE	100	5%	1/10W
R355	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R356	1-216-025-91	METAL GLAZE	100	5%	1/10W
R364	1-216-041-00	METAL GLAZE	470	5%	1/10W
R365	1-216-027-00	METAL GLAZE	120	5%	1/10W
R366	1-216-079-91	METAL GLAZE	18K	5%	1/10W
R367	1-216-079-91	METAL GLAZE	18K	5%	1/10W
R368	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R370	1-216-033-00	METAL GLAZE	220	5%	1/10W
R371	1-216-033-00	METAL GLAZE	220	5%	1/10W
R372	1-216-033-00	METAL GLAZE	220	5%	1/10W
R373	1-216-041-00	METAL GLAZE	470	5%	1/10W
R380	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R381	1-216-025-91	METAL GLAZE	100	5%	1/10W
R382	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R383	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R384	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R385	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R386	1-216-041-00	METAL GLAZE	470	5%	1/10W
R387	1-216-041-00	METAL GLAZE	470	5%	1/10W
R388	1-216-041-00	METAL GLAZE	470	5%	1/10W
R389	1-216-041-00	METAL GLAZE	470	5%	1/10W
R390	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R392	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R393	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R394	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (KV-C2173B/C2173E)
R395	1-216-049-91	METAL GLAZE	1K	5%	1/10W (KV-C2173B/C2173E)
R399	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R401	1-216-039-00	METAL GLAZE	390	5%	1/10W
R402	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R403	1-216-039-00	METAL GLAZE	390	5%	1/10W
R404	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R405	1-216-039-00	METAL GLAZE	390	5%	1/10W
R406	1-216-039-00	METAL GLAZE	390	5%	1/10W
R407	1-216-198-91	METAL GLAZE	1K	5%	1/8W
R408	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R409	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R410	1-216-025-91	METAL GLAZE	100	5%	1/10W
R413	1-216-033-00	METAL GLAZE	220	5%	1/10W
R415	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R417	1-216-033-00	METAL GLAZE	220	5%	1/10W
R419	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R420	1-216-033-00	METAL GLAZE	220	5%	1/10W
R421	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R422	1-216-022-00	METAL GLAZE	75	5%	1/10W
R423	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R424	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R425	1-216-022-00	METAL GLAZE	75	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R426	1-216-025-91	METAL GLAZE	100	5%	1/10W
R427	1-216-188-00	METAL GLAZE	390	5%	1/8W
R429	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R430	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R431	1-216-188-00	METAL GLAZE	390	5%	1/8W
R432	1-216-039-00	METAL GLAZE	390	5%	1/10W
R433	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R434	1-216-025-91	METAL GLAZE	100	5%	1/10W
R435	1-216-039-00	METAL GLAZE	390	5%	1/10W
R436	1-216-022-00	METAL GLAZE	75	5%	1/10W
R437	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R438	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R439	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R440	1-216-025-91	METAL GLAZE	100	5%	1/10W
R441	1-216-022-00	METAL GLAZE	75	5%	1/10W
R442	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R443	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R444	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R445	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R446	1-216-025-91	METAL GLAZE	100	5%	1/10W
R447	1-216-025-91	METAL GLAZE	100	5%	1/10W
R448	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R449	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R454	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R458	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R461	1-216-022-00	METAL GLAZE	75	5%	1/10W
R464	1-216-034-00	METAL GLAZE	240	5%	1/10W
R465	1-216-025-91	METAL GLAZE	100	5%	1/10W
R473	1-216-022-00	METAL GLAZE	75	5%	1/10W
R474	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R482	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R483	1-216-029-00	METAL GLAZE	150	5%	1/10W
R484	1-216-025-91	METAL GLAZE	100	5%	1/10W
R485	1-216-025-91	METAL GLAZE	100	5%	1/10W
R486	1-216-025-91	METAL GLAZE	100	5%	1/10W
R487	1-216-022-00	METAL GLAZE	75	5%	1/10W
R488	1-216-022-00	METAL GLAZE	75	5%	1/10W
R489	1-216-022-00	METAL GLAZE	75	5%	1/10W
R490	1-216-295-91	METAL GLAZE	0	5%	1/10W
R491	1-216-295-91	METAL GLAZE	0	5%	1/10W
R492	1-216-295-91	METAL GLAZE	0	5%	1/10W
R1001	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1002	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1004	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1008	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1009	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1010	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R1011	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R1012	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R1014	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1015	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1016	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1025	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1026	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1027	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1029	1-216-025-91	METAL GLAZE	100	5%	1/10W

A C

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REF.NO.	PART NO.	DESCRIPTION				REMARK
		< R1101-R1118 FITTED ON > < KV-C2173B/C2173E >				
R1101	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R1102	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1103	1-220-149-11	METAL GLAZE	2.2	10%	1/2W	
R1104	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1105	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R1106	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1107	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1108	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R1109	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R1110	1-220-238-11	METAL GLAZE	10	5%	1/4W	
R1111	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R1112	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R1113	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
R1114	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R1115	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R1116	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1117	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1118	1-220-149-11	METAL GLAZE	2.2	10%	1/2W	
		< RESISTOR NETWORK >				
RA2	1-236-908-11	RESISTOR, NETWORK (CHIP TYPE)				
RA3	1-236-908-11	RESISTOR, NETWORK (CHIP TYPE)				
		< VARIABLE RESISTOR >				
RV102	1-241-765-11	RES, ADJ, CARBON 22K (KV-C2173B)				
		< TUNER >				
TU101	8-598-045-00	TUNER (BTP-EC411)				
		< CRYSTAL >				
X2	1-579-063-21	VIBRATOR, CERAMIC				
X301	1-567-505-11	OSCILLATOR, CRYSTAL				
X302	1-567-504-11	OSCILLATOR, CRYSTAL				
X1001	1-567-495-11	OSCILLATOR, CRYSTAL				
X1101	1-579-689-21	VIBRATOR, CRYSTAL (KV-C2173B/C2173E)				
**********						
	*A-1638-055-A	C BOARD, COMPLETE **********				
		< CAPACITOR >				
C702	1-102-824-00	CERAMIC	470PF	5%	50V	
C703	1-102-115-00	CERAMIC	560PF	10%	50V	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C710	1-107-652-11	ELECT	10MF	20%	250V	
C712	1-102-115-00	CERAMIC	560PF	10%	50V	
C714	1-104-660-91	ELECT	47MF	20%	16V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
C722	1-101-880-00	CERAMIC	47PF	5%	50V	
C723	1-101-880-00	CERAMIC	47PF	5%	50V	
C724	1-101-880-00	CERAMIC	47PF	5%	50V	
		< CONNECTOR >				
CN701	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				
CN702	1-695-915-11	TAB (CONTACT)				
CN703	*1-568-882-51	PIN, CONNECTOR 7P				
		< DIODE >				
D701	8-719-110-14	DIODE RD9.1ESB3				
D702	8-719-991-33	DIODE 1SS133T-77				
D706	8-719-991-33	DIODE 1SS133T-77				
D707	8-719-991-33	DIODE 1SS133T-77				
D708	8-719-991-33	DIODE 1SS133T-77				
D709	8-719-991-33	DIODE 1SS133T-77				
D710	8-719-991-33	DIODE 1SS133T-77				
D711	8-719-302-43	DIODE EL1Z				
D713	8-719-991-33	DIODE 1SS133T-77				
D714	8-719-991-33	DIODE 1SS133T-77				
D715	8-719-991-33	DIODE 1SS133T-77				
D716	8-719-991-33	DIODE 1SS133T-77				
D717	8-719-991-33	DIODE 1SS133T-77				
D718	8-719-991-33	DIODE 1SS133T-77				
D719	8-719-991-33	DIODE 1SS133T-77				
		< CRT SOCKET >				
J701	1-526-990-22	SOCKET, CRT				
		< COIL >				
L704	1-408-609-41	INDUCTOR	33UH			
		< TRANSISTOR >				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-906-70	TRANSISTOR BF871-127				
Q704	8-729-200-17	TRANSISTOR 2SA1091-O				
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q706	8-729-906-70	TRANSISTOR BF871-127				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q709	8-729-906-70	TRANSISTOR BF871-127				
Q710	8-729-200-17	TRANSISTOR 2SA1091-O				
		< RESISTOR >				
JW701	1-247-791-91	CARBON	22	5%	1/4W	
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-822-00	SOLID	2.2K	10%	1/2W	
R706	1-247-815-91	CARBON	220	5%	1/4W	
R707	1-247-815-91	CARBON	220	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R711	1-249-428-11	CARBON	8.2K	5%	1/4W	
R712	1-202-822-00	SOLID	2.2K	10%	1/2W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-249-417-11	CARBON	1K	5%	1/4W	
R716	1-247-815-91	CARBON	220	5%	1/4W	
R717	1-247-815-91	CARBON	220	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R720	1-249-428-11	CARBON	8.2K	5%	1/4W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R726	1-202-822-00	SOLID	2.2K	10%	1/2W	
R727	1-247-815-91	CARBON	220	5%	1/4W	
R728	1-216-349-00	METAL OXIDE	1	5%	1W	F
R729	1-247-815-91	CARBON	220	5%	1/4W	
R731	1-249-428-11	CARBON	8.2K	5%	1/4W	

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C D

REF.NO.	PART NO.	DESCRIPTION				REMARK
R732	1-215-481-00	METAL	330K	1%	1/4W	
R734	1-247-807-31	CARBON	100	5%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-487-00	METAL	680K	1%	1/4W	
R739	1-249-417-11	CARBON	1K	5%	1/4W	
R741	1-202-549-00	SOLID	100	20%	1/2W	
R744	1-249-426-11	CARBON	5.6K	5%	1/4W	
R745	1-249-426-11	CARBON	5.6K	5%	1/4W	
R746	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M				
**********						
	*A-1642-122-A	D BOARD, COMPLETE				
		**********				
	4-201-023-11	SPACER, INSULATING				
	4-202-373-01	SPRING, IC				
		< CAPACITOR >				
C502	1-102-824-00	CERAMIC	470PF	5%	50V	
C503	1-136-165-00	FILM	0.1MF	5%	50V	
C504	1-102-824-00	CERAMIC	470PF	5%	50V	
C506	1-124-480-11	ELECT	470MF	20%	25V	
C507	1-109-953-11	ELECT	2.2MF	20%	50V	
C509	1-136-165-00	FILM	0.1MF	5%	50V	
C510	1-126-969-11	ELECT	220MF	20%	50V	
C511	1-136-202-11	FILM	0.33MF	5%	63V	
C513	1-106-220-00	MYLAR	0.1MF	10%	100V	
C514	1-136-165-00	FILM	0.1MF	5%	50V	
C515	1-124-480-11	ELECT	470MF	20%	25V	
C517	1-124-480-11	ELECT	470MF	20%	25V	
C518	1-102-228-00	CERAMIC	470PF	10%	500V	
C519	1-102-228-00	CERAMIC	470PF	10%	500V	
C520	1-124-480-11	ELECT	470MF	20%	25V	
C521	1-124-006-11	ELECT	10MF	20%	25V	
C522	1-126-964-11	ELECT	10MF	20%	50V	
C523	1-136-165-00	FILM	0.1MF	5%	50V	
C600 ⚠	1-164-503-61	CERAMIC	0.0022MF	20%	400V	
C601 ⚠	1-161-964-91	CERAMIC	0.0047MF		250V	
C602 ⚠	1-161-964-91	CERAMIC	0.0047MF		250V	
C603	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V	
C604	1-126-968-91	ELECT	100MF	20%	50V	
C605	1-124-667-11	ELECT	10MF	20%	100V	
C606	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C607	1-124-120-11	ELECT	220MF	20%	25V	
C608	1-109-880-11	FILM	0.0015MF	3%	2KV	
C611	1-102-228-00	CERAMIC	470PF	10%	500V	
C612	1-104-799-11	ELECT	22MF	20%	100V	
C613	1-124-347-00	ELECT	100MF	20%	160V	
C614	1-128-526-11	ELECT	100MF	20%	25V	
C615	1-111-063-11	ELECT	470MF	20%	25V	
C616	1-111-067-11	ELECT	0.001F	20%	25V	
C617	1-126-183-11	ELECT	1000MF	20%	16V	
C618	1-136-165-00	FILM	0.1MF	5%	50V	
C619	1-102-228-00	CERAMIC	470PF	10%	500V	
C620	1-102-228-00	CERAMIC	470PF	10%	500V	
C621	1-136-165-00	FILM	0.1MF	5%	50V	
C622	1-104-797-11	ELECT	0.47MF	20%	100V	
C623	1-126-934-91	ELECT	220MF	20%	25V	
C624	1-136-165-00	FILM	0.1MF	5%	50V	
C625	1-126-967-91	ELECT	47MF	20%	50V	
C626	1-126-934-91	ELECT	220MF	20%	25V	
C627	1-124-120-11	ELECT	220MF	20%	25V	
C628	1-126-964-11	ELECT	10MF	20%	50V	
C629	1-126-800-51	ELECT	2200MF	20%	25V	
C630	1-126-800-51	ELECT	2200MF	20%	25V	
C631	1-126-965-91	ELECT	22MF	20%	50V	
C632	1-124-120-11	ELECT	220MF	20%	25V	
C633 ⚠	1-136-516-12	FILM	0.1MF	20%	300V	
C634 ⚠	1-136-516-12	FILM	0.1MF	20%	300V	
C635 ⚠	1-136-516-12	FILM	0.1MF	20%	300V	
C636 ⚠	1-164-503-61	CERAMIC	0.0022MF	20%	400V	
C639	1-136-165-00	FILM	0.1MF	5%	50V	
C640	1-106-220-00	MYLAR	0.1MF	10%	100V	
C647	1-162-116-00	CERAMIC	680PF	10%	2KV	
C800	1-137-437-11	FILM	0.0056MF	5%	50V	
C801	1-136-153-00	FILM	0.01MF	5%	50V	
C804	1-136-165-00	FILM	0.1MF	5%	50V	
C806	1-104-999-11	MYLAR	0.1MF	10%	200V	
C807	1-136-111-00	FILM	1MF	5%	200V	
C810	1-126-772-11	ELECT	1MF	20%	250V	
C811	1-102-212-00	CERAMIC	820PF	10%	500V	
C812	1-136-111-00	FILM	1MF	5%	200V	
C813	1-136-759-11	FILM	0.039MF	10%	630V	
C814	1-136-549-11	FILM	0.0106MF	3%	1.4KV	
C815	1-136-562-11	MYLAR	0.0082MF	10%	400V	
C816	1-161-754-00	CERAMIC	0.001MF	10%	2KV	
C817	1-161-754-00	CERAMIC	0.001MF	10%	2KV	
C818	1-162-134-11	CERAMIC	470PF	10%	2KV	
C819	1-136-208-11	FILM	0.068MF	10%	250V	
C820	1-102-114-00	CERAMIC	470PF	10%	50V	
C821	1-162-114-00	CERAMIC	0.0047MF		2KV	
C822	1-107-662-11	ELECT	22MF	20%	250V	
C824	1-123-024-21	ELECT	33MF		160V	
C829	1-126-959-00	ELECT	0.47MF	20%	50V	
C830	1-124-903-11	ELECT	1MF	20%	50V	
C832	1-126-959-00	ELECT	0.47MF	20%	50V	
C834	1-104-662-91	ELECT	22MF	20%	25V	
C835	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C836	1-162-117-00	CERAMIC	100PF	10%	500V	
C838	1-102-228-00	CERAMIC	470PF	10%	500V	
C906	1-126-967-91	ELECT	47MF	20%	50V	
C908	1-126-967-91	ELECT	47MF	20%	50V	
C909	1-124-903-11	ELECT	1MF	20%	50V	
C910	1-137-393-11	FILM	0.01MF	5%	100V	
C1200	1-136-165-00	FILM	0.1MF	5%	50V	
C1201	1-136-165-00	FILM	0.1MF	5%	50V	
C1202	1-136-165-00	FILM	0.1MF	5%	50V	
C1203	1-136-169-00	FILM	0.22MF	5%	50V	
C1204	1-136-169-00	FILM	0.22MF	5%	50V	
C1205	1-101-005-00	CERAMIC	0.022MF		50V	
C1206	1-101-005-00	CERAMIC	0.022MF		50V	
C1207	1-124-665-11	ELECT	100MF	20%	25V	
C1208	1-126-963-11	ELECT	4.7MF	20%	50V	
C1209	1-126-963-11	ELECT	4.7MF	20%	50V	
C1210	1-124-961-11	ELECT	2.2MF	20%	50V	
C1211	1-124-961-11	ELECT	2.2MF	20%	50V	
C1214	1-104-665-11	ELECT	100MF	20%	25V	

D

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C1215	1-136-173-00	FILM	0.47MF	5%	50V
C1216	1-137-366-11	FILM	0.0022MF	5%	50V
C1217	1-137-366-11	FILM	0.0022MF	5%	50V
C1218	1-124-934-91	ELECT	220MF	20%	25V
		< CONNECTOR >			
CN600 ⚠	1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P			
CN601 ⚠	1-508-765-11	PIN, CONNECTOR (5MM PITCH) 3P			
CN602 ⚠	*1-695-292-11	PIN, CONNECTOR (POWER)			
CN800	*1-580-798-11	CONNECTOR PIN (DY) 6P			
CN803	1-695-915-11	TAB (CONTACT)			
CN804	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P			
CN901	*1-564-520-11	PLUG, CONNECTOR 5P			
CN902	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P			
CN903	*1-564-516-11	PLUG, CONNECTOR 13P			
CN904	*1-564-509-11	PLUG, CONNECTOR 6P			
CN905	*1-564-506-11	PLUG, CONNECTOR 3P			
CN1200	*1-568-879-11	PIN, CONNECTOR 4P			
		< DIODE >			
D500	8-719-109-85	DIODE RD5.1ESB2			
D502	8-719-979-85	DIODE EGP20G			
D503	8-719-979-85	DIODE EGP20G			
D504	8-719-991-33	DIODE 1SS133T-77			
D505	8-719-982-03	DIODE MTZJ-3.6A			
D506	8-719-991-33	DIODE 1SS133T-77			
D507	8-719-109-85	DIODE RD5.1ESB2			
D600	8-719-510-53	DIODE D4SB60L			
D601	8-719-046-77	DIODE EM1-V1			
D603	8-719-109-97	DIODE RD6.8ESB2			
D604	8-719-046-75	DIODE EU-1-V1			
D605	8-719-312-61	DIODE EU-1Z			
D606	8-719-312-61	DIODE EU-1Z			
D607	8-719-046-78	DIODE EG-1Z-V1			
D608	8-719-046-75	DIODE EU-1-V1			
D609	8-719-301-64	DIODE RU4DS			
D610	8-719-046-74	DIODE AU-01Z-V1			
D611	8-719-302-43	DIODE EL1Z			
D612	8-719-046-76	DIODE RU-3YX-V1			
D613	8-719-045-48	DIODE FML-G12S			
D614	8-719-045-48	DIODE FML-G12S			
D615	8-719-046-75	DIODE EU-1-V1			
D616	8-719-110-03	DIODE RD7.5ESB2			
D617	8-719-991-33	DIODE 1SS133T-77			
D618	8-719-991-33	DIODE 1SS133T-77			
D619	8-719-991-33	DIODE 1SS133T-77			
D620	8-719-991-33	DIODE 1SS133T-77			
D622	8-719-923-60	DIODE MTZJ-T-77-9.1A			
D625	8-719-991-33	DIODE 1SS133T-77			
D626	8-719-046-74	DIODE AU-01Z-V1			
D800	8-719-991-33	DIODE 1SS133T-77			
D801	8-719-991-33	DIODE 1SS133T-77			
D802	8-719-991-33	DIODE 1SS133T-77			
D803	8-719-908-03	DIODE GP08D			
D807	8-719-302-43	DIODE EL1Z			
D809	8-719-018-82	DIODE RGP02-20EL-6394			
D810	8-719-302-43	DIODE EL1Z			
D812	8-719-038-49	DIODE FMS-3FU-LF027-103			
D817	8-719-109-89	DIODE RD5.6ESB2			
D902	8-719-923-60	DIODE MTZJ-T-77-9.1A			
D903	8-719-923-60	DIODE MTZJ-T-77-9.1A			
D904	8-719-923-60	DIODE MTZJ-T-77-9.1A			
D905	8-719-923-60	DIODE MTZJ-T-77-9.1A			
D906	8-719-923-60	DIODE MTZJ-T-77-9.1A			
D1201	8-719-109-72	DIODE RD3.9ESB2			
		< FERRITE BEAD >			
FB600	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH			
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH			
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH			
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH			
FB605	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH			
FB606	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH			
FB607	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH			
		< IC >			
IC500	8-759-192-71	IC STV9379			
IC600	8-749-010-84	IC STR-S6708			
IC601 ⚠	8-749-924-92	IC TLP721(D4)-GR			
IC602	8-749-920-61	IC SE-135N			
IC603	8-759-144-82	IC µPC2405HF			
IC604	8-759-250-63	IC TL750L05CLPR			
IC605	8-759-231-58	IC TA7812S			
IC606	8-759-267-25	IC LM2940CT-9.0			
IC800	8-759-103-93	IC µPC393C			
IC1200	8-759-250-68	IC TDA7264			
IC1201	8-759-502-21	IC TDA2822M			
		< COIL >			
L502	1-412-519-11	INDUCTOR	3.3UH		
L503	1-412-519-11	INDUCTOR	3.3UH		
L609	1-412-533-21	INDUCTOR	47UH		
L611	1-412-527-11	INDUCTOR	15UH		
L612	1-414-415-11	INDUCTOR, WIDE BAND			
L613	1-412-415-11	INDUCTOR, WIDE BAND			
L801	1-459-111-00	COIL, DRAM CORE (CDI)			
L803	1-420-872-00	COIL, AIR CORE			
L804	1-459-652-12	COIL, HORIZONTAL LINEARITY			
L805	1-406-675-11	COIL, CHOKE 4.7MMH			
L809	1-412-533-21	INDUCTOR	47UH		
		< TRANSFORMER >			
LF600 ⚠	1-421-776-21	LFT			
LF601 ⚠	1-421-776-21	LFT			
		< IC LINK >			
PS600 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)			
PS601 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)			
PS602 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)			
PS603 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)			
PS801 ⚠	1-532-605-91	LINK, IC 0.4A (ICP-F10)			
		< TRANSISTOR >			
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q502	8-729-173-38	TRANSISTOR 2SA733-K			
Q503	8-729-900-89	TRANSISTOR DTC144ES			
Q601	8-729-025-04	TRANSISTOR 2SC3852A			
Q602	8-729-320-28	TRANSISTOR 2SA1667			
Q603	8-729-027-08	TRANSISTOR 2SC2389STP-R			
Q604	8-729-024-35	TRANSISTOR 2SC2808STP-R			

D

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q606	8-729-900-65	TRANSISTOR DTA144ES				
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q800	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q801	8-729-017-06	TRANSISTOR 2SC4793				
Q802	8-729-016-32	TRANSISTOR 2SC4927-01				
Q803	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q805	8-729-900-89	TRANSISTOR DTC144ES				
Q1200	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1201	8-729-900-74	TRANSISTOR DTC143TS				
Q1202	8-729-900-80	TRANSISTOR DTC114ES				
Q1203	8-729-900-74	TRANSISTOR DTC143TS				
Q1204	8-729-900-74	TRANSISTOR DTC143TS				
		< RESISTOR >				
R500	1-215-457-00	METAL	33K	1%	1/4W	
R502	1-249-421-11	CARBON	2.2K	5%	1/4W	
R503	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-215-443-00	METAL	8.2K	1%	1/4W	
R505	1-249-382-11	CARBON	1.2	5%	1/4W	F
R506	1-215-459-00	METAL	6.8K	1%	1/4W	
R507	1-215-888-00	METAL OXIDE	220	5%	2W	F
R508	1-216-372-00	METAL OXIDE	1.8	5%	2W	F
R509	1-249-443-11	CARBON	0.47	5%	1/4W	F
R510	1-249-443-11	CARBON	0.47	5%	1/4W	F
R517	1-215-427-00	METAL	1.8K	1%	1/4W	
R518	1-215-427-00	METAL	1.8K	1%	1/4W	
R520	1-215-457-00	METAL	33K	1%	1/4W	
R521	1-215-457-00	METAL	33K	1%	1/4W	
R522	1-247-863-91	CARBON	22K	5%	1/4W	
R523	1-247-863-91	CARBON	22K	5%	1/4W	
R524	1-249-425-11	CARBON	4.7K	5%	1/4W	
R525	1-249-425-11	CARBON	4.7K	5%	1/4W	
R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
R527	1-215-449-00	METAL	15K	1%	1/4W	
R529	1-247-895-91	CARBON	470K	5%	1/4W	
R600	1-216-490-11	METAL OXIDE	39K	5%	3W	F
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-215-875-11	METAL OXIDE	10K	5%	1W	F
R604	1-249-420-11	CARBON	1.8K	5%	1/4W	
R605	1-216-362-11	METAL OXIDE	0.27	5%	2W	F
R607	1-216-421-11	METAL OXIDE	12	5%	1W	F
R608	1-216-365-00	METAL OXIDE	0.47	5%	2W	F
R610	1-215-419-00	METAL	820	1%	1/4W	
R611	1-215-859-00	METAL OXIDE	22	5%	1W	F
R612	1-249-428-11	CARBON	8.2K	5%	1/4W	
R613	1-249-417-11	CARBON	1K	5%	1/4W	
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R615	1-249-435-11	CARBON	33K	5%	1/4W	
R616	1-215-479-00	METAL	270K	1%	1/4W	
R617	1-215-901-00	METAL OXIDE	33K	5%	2W	F
R618	1-247-863-91	CARBON	22K	5%	1/4W	
R619	1-216-425-11	METAL OXIDE	56	5%	1W	F
R620	1-247-895-00	CARBON	470K	5%	1/4W	
R621	1-216-425-11	METAL OXIDE	56	5%	1W	F
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-249-429-11	CARBON	10K	5%	1/4W	
R624	1-249-405-11	CARBON	100	5%	1/4W	F
R625	1-249-434-11	CARBON	27K	5%	1/4W	
R626	1-249-430-11	CARBON	12K	5%	1/4W	
R628	1-249-415-11	CARBON	680	5%	1/4W	F
R629 ⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R630 ⚠	1-218-265-21	METAL	8.2M	5%	1W	
R631 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	
R632	1-247-807-31	CARBON	100	5%	1/4W	
R633	1-247-807-31	CARBON	100	5%	1/4W	
R634	1-249-397-11	CARBON	22	5%	1/4W	F
R635	1-249-437-11	CARBON	47K	5%	1/4W	
R636	1-249-417-11	CARBON	1K	5%	1/4W	
R637	1-247-815-91	CARBON	220	5%	1/4W	
R638	1-247-863-91	CARBON	22K	5%	1/4W	
R639	1-215-431-00	METAL	2.7K	1%	1/4W	
R640	1-216-381-11	METAL OXIDE	0.22	5%	3W	F
R641	1-216-381-11	METAL OXIDE	0.22	5%	3W	F
R642 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	
R644	1-247-807-31	CARBON	100	5%	1/4W	
R645	1-249-422-11	CARBON	2.7K	5%	1/4W	
R646	1-249-377-11	CARBON	0.47	5%	1/4W	F
R647	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R648	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R800	1-249-421-11	CARBON	2.2K	5%	1/4W	
R801	1-249-429-11	CARBON	10K	5%	1/4W	
R802	1-249-431-11	CARBON	15K	5%	1/4W	
R803	1-249-426-11	CARBON	5.6K	5%	1/4W	
R804	1-249-430-11	CARBON	12K	5%	1/4W	
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	
R809	1-247-901-11	CARBON	820K	5%	1/4W	
R812	1-249-421-11	CARBON	2.2K	5%	1/4W	
R813	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R814	1-249-411-11	CARBON	330	5%	1/4W	
R816	1-215-919-00	METAL OXIDE	2.2K	5%	3W	F
R817	1-215-919-00	METAL OXIDE	2.2K	5%	3W	F
R819	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-216-474-11	METAL OXIDE	82	5%	3W	F
R822	1-215-868-00	METAL OXIDE	680	5%	1W	F
R824	1-249-420-11	CARBON	1.8K	5%	1/4W	
R826	1-247-752-11	CARBON	1K	5%	1/2W	
R827	1-249-425-11	CARBON	4.7K	5%	1/4W	
R828	1-249-436-11	CARBON	39K	5%	1/4W	
R829	1-249-493-11	CARBON	56K	5%	1/2W	
R830	1-217-778-11	FUSIBLE	1K	5%	1W	F
R833	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R836	1-249-439-11	CARBON	68K	5%	1/4W	
R837	1-249-432-11	CARBON	18K	5%	1/4W	
R840	1-247-807-31	CARBON	100	5%	1/4W	
R841	1-249-418-11	CARBON	1.2K	5%	1/4W	
R842	1-247-891-00	CARBON	330	5%	1/4W	
R843	1-247-883-00	CARBON	150K	5%	1/4W	
R846	1-249-441-11	CARBON	100K	5%	1/4W	
R847	1-247-887-00	CARBON	220K	5%	1/4W	
R848	1-247-887-00	CARBON	220K	5%	1/4W	
R849	1-249-429-11	CARBON	10K	5%	1/4W	
R850	1-249-425-11	CARBON	4.7K	5%	1/4W	
R851	1-215-898-11	METAL OXIDE	10K	5%	2W	F
R852	1-249-432-11	CARBON	18K	5%	1/4W	
R901	1-247-734-11	CARBON	39	5%	1/2W	
R902	1-247-734-11	CARBON	39	5%	1/2W	
R907	1-247-804-11	CARBON	75	5%	1/4W	
R916	1-247-791-91	CARBON	22	5%	1/4W	

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D H1 H2 H3

REF.NO.	PART NO.	DESCRIPTION				REMARK
R917	1-247-791-91	CARBON	22	5%	1/4W	
R1200	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1201	1-249-434-11	CARBON	27K	5%	1/4W	
R1202	1-249-393-11	CARBON	10	5%	1/4W	F
R1203	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1204	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1205	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1206	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1208	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R1209	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R1211	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1212	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1213	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1216	1-249-413-11	CARBON	470	5%	1/4W	
R1217	1-249-425-11	CARBON	4.7K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-238-552-11	RES, ADJ, CARBON 470K				
		< RELAY >				
RY600 ⚠	1-755-018-11	RELAY				
		< SPARK GAP >				
SG801	1-519-422-11	GAP, SPARK				
		< TRANSFORMER >				
T601 ⚠	1-426-805-12	SRT				
T800	1-459-390-00	COIL (WITH CORE)				
T803 ⚠	1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)				
T804	1-437-090-00	HDT				
		< THERMISTOR >				
THP600 ⚠	1-809-827-11	THERMISTOR, POSITIVE				
		**********				
	*A-1646-092-A	H1 BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C900	1-101-810-00	CERAMIC	100PF	5%	500V	
C901	1-101-810-00	CERAMIC	100PF	5%	500V	
C902	1-137-372-11	FILM	0.022MF	5%	50V	
C903	1-137-372-11	FILM	0.022MF	5%	50V	
C907	1-124-903-11	ELECT	1MF	20%	50V	
		< CONNECTOR >				
CN900	1-568-678-11	TERMINAL BLOCK, S 3P				
CN906	*1-564-516-11	PLUG, CONNECTOR 13P				
		< JACK >				
J900	1-764-606-11	JACK				
		< COIL >				
L900	1-408-409-00	INDUCTOR	10UH			
L901	1-408-409-00	INDUCTOR	10UH			
L902	1-408-409-00	INDUCTOR	10UH			
L903	1-408-409-00	INDUCTOR	10UH			

REF.NO.	PART NO.	DESCRIPTION				REMARK
		< RESISTOR >				
R905	1-247-804-11	CARBON	75	5%	1/4W	
R906	1-247-804-11	CARBON	75	5%	1/4W	
R909	1-249-437-11	CARBON	47K	5%	1/4W	
R910	1-249-437-11	CARBON	47K	5%	1/4W	
R915	1-247-791-91	CARBON	22	5%	1/4W	
		**********				
	*A-1646-070-A	H2 BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C904	1-124-910-11	ELECT	47MF	20%	50V	
C905	1-124-907-11	ELECT	10MF	20%	50V	
		< CONNECTOR >				
CN907	*1-564-509-11	PLUG, CONNECTOR 6P				
		< DIODE >				
D901	8-719-030-11	DIODE SLA-570KT3F				
		< IC >				
IC900	8-741-790-11	IC SBX1790-11				
		< RESISTOR >				
R900	1-247-815-91	CARBON	220	5%	1/4W	
R908	1-249-401-11	CARBON	47	5%	1/4W	
		**********				
	*A-1646-093-A	H3 BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
CN908	*1-564-506-11	PLUG, CONNECTOR 3P				
		< RESISTOR >				
R911	1-249-423-11	CARBON	3.3K	5%	1/4W	
R912	1-249-429-11	CARBON	10K	5%	1/4W	
R913	1-249-423-11	CARBON	3.3K	5%	1/4W	
R914	1-249-429-11	CARBON	10K	5%	1/4W	
		< SWITCH >				
S900	1-692-979-11	SWITCH, TACTILE				
S901	1-692-979-11	SWITCH, TACTILE				
S902	1-692-979-11	SWITCH, TACTILE				
		**********				

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		*************	
⚠	1-406-828-11	COIL, DEGAUSSING	
	1-452-032-00	MAGNET, DISK; 10MM Ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	1-452-277-00	MAGNET, BMC	
⚠	1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	
	1-544-525-11	SPEAKER	
⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
⚠	1-690-270-21	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-C2173B/C2173E/C2171K/C2171KR)	
⚠	1-765-286-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V (KV-C2171D)	
	8-598-045-00	TUNER (BTP-EC411)	
⚠	8-451-295-43	DEFLECTION YOKE (Y21PFA2)	
V901 ⚠	8-738-783-05	PICTURE TUBE (SD-169) (A51JXH61X)	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	*4-033-049-01	CUSHION (LOWER) (ASSY)	
	*4-033-050-01	CUSHION (UPPER) (ASSY)	
	*4-033-051-01	INDIVIDUAL CARTON	
	*4-039-905-02	BAG, PROTECTION (KV-C2173B/C2171D/C2173E/C2171K)	
	*4-042-476-01	BAG, PROTECTION (KV-C2171KR)	
	4-203-171-51	MANUAL, INSTRUCTION (KV-C2173B) (FRENCH/GERMAN/ITALIAN)	
	4-203-171-11	MANUAL, INSTRUCTION (KV-C2171D) (GERMAN/ENGLISH/NORWEGIAN)	
	4-203-171-71	MANUAL, INSTRUCTION (KV-C2173E) (SPANISH)	
	4-203-171-91	MANUAL, INSTRUCTION (KV-C2171K) (ENGLISH/CZECH/POLISH)	
	4-203-223-91	MANUAL, INSTRUCTION (KV-C2171KR) (ENGLISH/RUSSIAN/BULGARIAN)	
		REMOTE COMMANDER	
		**********	
	1-467-706-11	COMMANDER, STANDARD TYPE (RM-833)	

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